

HIGH-PURITY ALUMINIUM AL 99.85-99.99
a - Al99 ; 1199
Form C'

CONTENTS IN µg/g
(ppm)

| CODE | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | B | Co | Ga | Pb | Sn | V | Ti |
|------|-------------|---------------|---------------|--------------|----------------|---------------|----------------|---------------|---------------|------------|---------------|------------|---------------|--------------|---------------|
| 574 | 152 ± 12 | 175 ± 4 | 94 ± 5 | 52 ± 1 | 325 ± 8 | 47.5 ± 2.0 | 55.6 ± 2.0 | 138 ± 3 | | 54 ± 2 | 58.5 ± 3.0 | 51 ± 3 | 55.0 ± 3.5 | | 57.0 ± 1.7 |
| 579 | 285 ± 10 | 305 ± 6 | 190 ± 5 | 127 ± 3 | 138.0 ± 3.5 | 103 ± 4 | 110.0 ± 3.5 | 277 ± 6 | | 106 ± 4 | 112 ± 4 | 103 ± 5 | 107 ± 5 | | 128 ± 3 |
| 9201 | <= 5 | .5 ± .1 | .35 ± .07 | .04 ± .01 | < .5 | .08 ± .01 | | .33 ± .05 | .5 ± .2 | | | | | <= .2 | .2 ± .1 |
| 9202 | 39 ± 4 | 39.7 ± .9 | 9.8 ± .8 | 4.6 ± .2 | 8.8 ± .6 | 5.01 ± .09 | | 3.1 ± .9 | 4.6 ± .7 | | | | | <= .2 | 1.8 ± .2 |
| 9203 | 11 ± 3 | 13.1 ± .6 | 39.9 ± 1.2 | .14 ± .01 | 4.0 ± .4 | .16 ± .02 | | 10.6 ± .9 | 13.5 ± 1.1 | | | | | .8 ± .3 | 4.5 ± 1.1 |
| 9204 | 97 ± 4 | 88.9 ± 1.4 | 98.4 ± 1.2 | 15.4 ± .5 | 19.1 ± .7 | 21.0 ± .4 | | 43.4 ± 1.3 | 1.4 ± .4 | | | | | 12.7 ± .3 | 34.1 ± 1.3 |
| 9205 | 285 ± 7 | 298 ± 3 | 312 ± 5 | 49.5 ± .9 | 48.0 ± 1.0 | 50.2 ± .8 | | 99.3 ± 1.6 | .7 ± .3 | | | | | 22.2 ± .5 | 81.3 ± 1.6 |

The range is established with a 95 % level of confidence.
Last updated on 23 November 2005.

HIGH-PURITY ALUMINIUM AL 99.85-99.99

b - Al99 ; 1199

Form C'

CONTENTS IN µg/g
(ppm)

| CODE | Ni | Ga | Ag | Bi | Co | In | Pb | Sn | Zr | Ce | La | Nd |
|------|--------------|----------------|--------------|--------------|--------------|--------------|-------------|---------------|---------------|--------------|--------------|--------------|
| 9206 | .6 ± .1 | .06 ± .01 | < .05 | < .05 | <= .06 | < .01 | .2 ± .1 | .10 ± .03 | < .3 | < .02 | < .01 | < .1 |
| 9207 | 2.4 ± .2 | 3.2 ± .2 | 5.8 ± .2 | 3.5 ± .4 | 5.3 ± .2 | 1.2 ± .4 | 3.9 ± .6 | 5.5 ± .4 | .30 ± .07 | .09 ± .01 | < .05 | < .4 |
| 9208 | 10.5 ± .4 | 43.6 ± 1.2 | 12.8 ± .3 | < .05 | .08 ± .01 | 4.5 ± .4 | 41 ± 3 | .53 ± .08 | 19.3 ± .6 | 6.3 ± .2 | 8.1 ± .2 | 6.6 ± .2 |
| 9209 | 18.7 ± .6 | 106.3 ± 2.2 | .24 ± .06 | < .05 | <= .06 | .06 ± .01 | .2 ± .1 | .21 ± .05 | 40.6 ± 3.1 | 17.1 ± .4 | 19.2 ± .4 | 20.6 ± .4 |
| 9210 | 8.9 ± .5 | 13.3 ± .3 | 49.7 ± .9 | 13.3 ± .5 | 18.7 ± .4 | 19.4 ± .9 | 9.6 ± .8 | 18.6 ± 1.3 | < .3 | .17 ± .02 | < .05 | < .4 |

The range is established with a 95 % level of confidence.
Last updated on 15 April 2002.

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NON-ALLOYED ALUMINIUM AL 99.0-99.9
1050
Form C'

CONTENTS IN %

| CODE | Si | Fe | As | B | Be | Bi | Ca | Hg | Li | Mo | Na | Sb | Se | Zr |
|------|-------|-------|----------------------------|--------------------------|--------------------------|--------------------------|----------------------|--------------------------|-----------------------|--------------------------|----------------------|--------------------------|--------------------------|--------------------------|
| 172 | (.12) | (.26) | .000007 ±.000001 | .00021 ±.00006 | .00002 ±.00001 | .00010 ±.00001 | (.00022) | .00010 ±.00004 | (.000006) | .00015 ±.00008 | < .00002 | .00021 ±.00001 | .00010 ±.00002 | .00026 ±.00007 |
| 173 | (.11) | (.27) | .0021 ±.0002 | .00043 ±.00011 | .00018 ±.00002 | .00054 ±.00005 | (.0002) | .00053 ±.00003 | (.000006) | .00042 ±.00004 | < .00002 | .0016 ±.0002 | .0006 ±.0001 | .0023 ±.0004 |
| 174 | (.12) | (.26) | .0068 ±.0003 | .0033 ±.0006 | .00043 ±.00004 | .00135 ±.00010 | (.00052) | .00165 ±.00008 | (.00039) | .0027 ±.0002 | (.00021) | .0043 ±.0004 | .0011 ±.0001 | (.005) |
| 175 | (.13) | (.3) | .0463 ±.0018 | .0063 ±.0007 | .00119 ±.00009 | .00280 ±.00015 | (.00042) | .0119 ±.0007 | (.0013) | .0071 ±.0005 | (.00048) | .0103 ±.0004 | .0014 ±.0001 | (.002) |

The range is established with a 95 % level of confidence.

Figures in brackets are given for reference but should not be used as calibration values in any case

Last updated on 16 April 2002.

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NON-ALLOYED ALUMINIUM AL 99.0-99.9
1100 ; 1200 ; 8000
FORM C'

CONTENTS IN %

| CODE | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Ga | Pb | Sb | Sn | Ti |
|-------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|------------------------------|----------------------------|----------------------------|----------------------------|
| 509 | .3210 ± .0071 | .5970 ± .0129 | .0705 ± .0019 | .0750 ± .0019 | .0566 ± .0020 | .0631 ± .0017 | .0363 ± .0007 | .1372 ± .0031 | .0170 ± .0005 | .0488 ± .0016 | .0400 ± .0013 | .0390 ± .0016 | .0404 ± .0009 |
| 6012 | .5750 ± .0165 | .7850 ± .0150 | .1420 ± .0030 | .1290 ± .0030 | .1210 ± .0035 | .0110 ± .0013 | .0097 ± .0005 | .1970 ± .0050 | .0226 ± .0010 | <= .0002 | .0022 ± .0004 | .0003 ± .0001 | .0485 ± .0015 |
| 6013 | .7650 ± .0210 | 1.200 ± .023 | .0472 ± .0015 | .3960 ± .0100 | .1730 ± .0040 | .0280 ± .0010 | .0243 ± .0009 | .0505 ± .0020 | | .0248 ± .0011 | | .0260 ± .0020 | .1990 ± .0060 |
| 6014 | .9400 ± .0280 | 1.580 ± .030 | .1950 ± .0040 | .2800 ± .0070 | .0442 ± .0017 | .0115 ± .0005 | .0046 ± .0002 | .0107 ± .0006 | | .0075 ± .0005 | | .0080 ± .0008 | .1420 ± .0060 |

The range is established with a 95 % level of confidence.
Last updated on 16 April 2002.

NON-ALLOYED ALUMINIUM AL 99.0-99.9
8011
Form C'

CONTENTS IN %

| CODE | Si | Fe | Cu | Mn | Cr | Pb | As | Cd | Hg |
|-------------|-------|--------|---------|---------|---------|---------------------------|---------------------------|-----------------------------|---------------------------|
| 4017 | (.73) | (1.24) | (.0094) | (.0077) | (.0022) | .0121 ± .0004 | .0257 ± .0019 | .0114 ± .0004 | .00015 ± .00008 |
| 4018 | (.74) | (1.02) | (.0069) | (.0231) | (.0019) | .00200 ± .00019 | .0061 ± .0005 | .00252 ± .00012 | .00077 ± .00011 |
| 4028 | (.7) | (.62) | (.0039) | (.1056) | (.0018) | .00021 ± .00014 | .00032 ± .00006 | < .0001 | .0142 ± .0007 |
| 4029 | (.72) | (.79) | (.0039) | (.0552) | (.0002) | .00035 ± .00009 | .0028 ± .0004 | .00074 ± .00005 | .0030 ± .0002 |

The range is established with a 95 % level of confidence.

Figures in brackets are given for reference but should not be used as calibration values in any case

Last updated on 16 April 2002.

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NON-ALLOYED ALUMINIUM AL 99.0-99.9
A4 à A9 ; 1000 ; 1100 ; 1200
Form C or C'

CONTENTS IN %

| CODE | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Co | Ga | Pb | Sb | Sn | Ti | V | Cd | Zr |
|---------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|---------------------|
| 149 | .0200 ± .0015 | .0180 ± .0010 | .0029 ± .0003 | .0005 ± .0002 | .0004 ± .0001 | .00010 ± .00002 | .0005 ± .0002 | .0038 ± .0005 | | .0032 ± .0002 | .0004 ± .0002 | | < .0001> | .0006 ± .0001 | | | |
| 509 | .3210 ± .0071 | .5970 ± .0129 | .0705 ± .0019 | .0750 ± .0019 | .0566 ± .0020 | .0631 ± .0017 | .0363 ± .0007 | .1372 ± .0031 | | .0170 ± .0005 | .0488 ± .0016 | .0400 ± .0013 | .0390 ± .0016 | .0404 ± .0009 | | | |
| 6012 | .5750 ± .0165 | .7850 ± .0150 | .1420 ± .0030 | .1290 ± .0030 | .1210 ± .0035 | .0110 ± .0013 | .0097 ± .0005 | .1970 ± .0050 | | .0226 ± .0010 | <= .0002> | .0022 ± .0004 | .0003 ± .0001 | .0485 ± .0015 | | | |
| 122C/01 | 0,0585 ±0,0020 | 0,0981 ±0,0030 | 0,0148 ±0,0005 | 0,0104 ±0,0004 | 0,0042 ±0,0002 | 0,0027 ±0,0001 | 0,0024 ±0,0002 | 0,0153 ±0,0005 | 0,0008 ±0,0001 | 0,0009 ±0,0001 | 0,0146 ±0,0005 | 0,0032 ±0,0002 | 0,0147 ±0,0004 | 0,0038 ±0,0002 | 0,0018 ±0,0002 | 0,00020 ±0,00005 | 0,00010 ±0,00005 |
| 67995 | .1700 ± .0100 | .3700 ± .0100 | .0400 ± .0010 | .0390 ± .0020 | .0240 ± .0010 | .0215 ± .0010 | .0190 ± .0015 | .0740 ± .0040 | .0002 | .0103 ± .0003 | .02 | .0190 ± .0020 | .02 | .0170 ± .0010 | | | |
| 768 | 0.0994 ±0.0035 | 0.1935 ±0.0038 | 0.0006 ±0.0001 | 0.0203 ±0.0006 | 0.0093 ±0.0005 | 0.0056 ±0.0003 | 0.0051 ±0.0002 | 0.0003 ±0.0001 | 0.0041 ±0.0002 | <0.0004 - | 0.0040 ±0.0003 | 0.0093 ±0.0006 | 0.0040 ±0.0003 | 0.0104 ±0.0005 | 0.0138 ±0.0005 | 0.0004 ±0.0001 | 0.0061 ±0.0003 |
| 769 | 0.0999 ±0.0034 | 0.2009 ±0.0037 | 0.0004 ±0.0001 | 0.0204 ±0.0006 | 0.0093 ±0.0005 | 0.0056 ±0.0003 | 0.0051 ±0.0002 | 0.0002 ±0.0001 | 0.0034 ±0.0002 | <0.0004 - | 0.0040 ±0.0003 | 0.0095 ±0.0006 | 0.0040 ±0.0003 | 0.0105 ±0.0005 | 0.0139 ±0.0005 | 0.0004 ±0.0001 | 0.0040 ±0.0002 |

The range is established with a 95 % level of confidence.

Last updated on February 1, 2008.

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NON-ALLOYED ALUMINIUM AL 99.0-99.9
Boron content determination in aluminium
Form C'

CONTENT IN %

| CODE | Si | Fe | B |
|--------------|-----------|-----------|-------------------------|
| 11524 | (.05) | (.1) | .0004 ± .0002 |
| 11525 | (.05) | (.1) | .0012 ± .0002 |
| 11526 | (.05) | (.1) | .0021 ± .0003 |
| 11527 | (.05) | (.1) | .0046 ± .0003 |

The range established with a 95 % level of confidence.

Figures in brackets are given for reference but should not be used as calibration values in any case

Last updated on 29 November 2004.

NON-ALLOYED ALUMINIUM AL 99.0-99.9
Boron, Calcium, Lithium and Sodium content determination in aluminium
Form C'

CONTENT IN %

| CODE | Si | Fe | B | Ca | Li | Na |
|--------------|-------|-------|---------------------------|---------------------------|-----------------------------|-------------------------------|
| 338 | (.11) | (.2) | .00051 ± .00006 | .0133 ± .0005 | .000003 ± .000001 | .00007 ± .00001 |
| 424 | (.09) | (.18) | .0080 ± .0006 | .00034 ± .00015 | .000004 ± .000001 | <= .00001 |
| 425-1 | (.1) | (.18) | .0074 ± .0010 | .0035 ± .0003 | .0430 ± .0014 | .0222 ± .0018 |
| 425-2 | (.1) | (.18) | .0074 ± .0010 | .0037 ± .0004 | .0467 ± .0018 | .0250 ± .0026 |

The range is established with a 95 % level of confidence.

Figures in brackets are given for reference but should not be used as calibration values in any case

Last updated on 18 May 2006.

NON-ALLOYED ALUMINIUM AL 99.0-99.9
Boron, Calcium, Lithium and Sodium content determination in aluminium
Form C'

CONTENTS IN %

| CODE | Si | Fe | B | Ca | Li | Na |
|--------------|-------|-------|---------------------------|-------------------------|---------------------------|-------------------------|
| 436-1 | (.11) | (.21) | .00011 ± .00007 | < .0001 | .0112 ± .0009 | .0095 ± .000 |
| 436-2 | (.11) | (.21) | .00010 ± .00006 | < .0001 | .0118 ± .0012 | .0100 ± .0009 |
| 437-1 | (.11) | (.22) | .0027 ± .0005 | .0016 ± .0002 | .00102 ± .00012 | .0014 ± .0002 |
| 437-2 | (.11) | (.22) | .0028 ± .0005 | .0016 ± .0002 | .00109 ± .00014 | .0015 ± .0002 |
| 437-3 | (.11) | (.22) | .0026 ± .0005 | .0016 ± .0002 | .00103 ± .00012 | .0015 ± .0002 |

The range is established with a 95 % level of confidence.

Figures in brackets are given for reference but should not be used as calibration values in any case

Last updated on 18 May 2006.

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NON-ALLOYED ALUMINIUM AL 99.0-99.9
Phosphore content determination in aluminium
form C'

CONTENT IN %

| CODE | Si | Fe | P |
|------|-------|-------|---------------------------|
| 6084 | (.04) | (.04) | .00002 ± .00001 |
| 6085 | (.04) | (.07) | .00021 ± .00002 |
| 6086 | (.03) | (.08) | .00109 ± .00016 |
| 6087 | (.03) | (.09) | .00240 ± .00020 |

The range is established with a 95 % level of confidence.

Figures in brackets are given for reference but should not be used as calibration values in any case

Last updated on 16 April 2002.

ALUMINIUM-SILICON ALLOYS AL-SI
4006
Form C'

CONTENTS IN %

| CODE | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Pb | Sn | Ti |
|-------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| 2008 | .98 ± .03 | .722 ± .013 | .0322 ± .0009 | .0402 ± .0010 | .0056 ± .0003 | .1868 ± .0040 | .0175 ± .0007 | .0235 ± .0007 | .0131 ± .0006 | .0124 ± .0007 | .0199 ± .0006 |
| 509 | .3210 ± .0071 | .5970 ± .0129 | .0705 ± .0019 | .0750 ± .0019 | .0566 ± .0020 | .0631 ± .0017 | .0363 ± .0007 | .1372 ± .0031 | .0488 ± .0016 | .0390 ± .0016 | .0404 ± .0009 |
| 813 | 1.26 ± .04 | .3970 ± .0065 | .0080 ± .0003 | .0044 ± .0002 | .0002 ± .0001 | .1249 ± .0025 | .0023 ± .0001 | .0052 ± .0003 | .0005 ± .0002 | .0005 ± .0001 | .0055 ± .0003 |

*The range is established with a 95 % level of confidence.
Last updated on 19 June 2006.*

ALUMINIUM-SILICON ALLOYS AL-SI
4006 BIS
Form C'

CONTENTS IN %

| CODE | Si | Fe | Mn | Cr | Pb | As | Cd | Hg |
|------|---------|---------|---------|--------|--------------------|--------------------|--------------------|--------------------|
| 4190 | (1.2) | (.79) | (.031) | (.17) | .00176 ± .00020 | .0084 ± .0006 | .00222 ± .00013 | .0024 ± .0002 |
| 4200 | (1.2) | (1.07) | (.014) | (.18) | .0107 ± .0003 | .0359 ± .0031 | .0115 ± .0004 | .00002 ± .00001 |
| 4260 | (1.11) | (.38) | (.076) | (.16) | < .00025 | .00006 ± .00002 | < .0001 | .0138 ± .0006 |
| 4270 | (1.11) | (.59) | (.056) | (.17) | .00063 ± .00013 | .0024 ± .0006 | .00057 ± .00005 | .00060 ± .00008 |

The range is established with a 95 % level of confidence.

Figures in brackets are given for reference but should not be used as calibration values in any case

Last updated on 16 April 2002.

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ALUMINIUM-SILICON ALLOYS AL-SI
A-GS ; 6063 ; 6060 ; 6061 ; 6101 ; 6951
AlSiMg ; 6005 ; 6082 ; 6351 ; 6952 ; 6981
Form C'

CONTENTS IN %

| CODE | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Be | Pb | Sn | V | Ti | Zr | Ga |
|------------------------------------|------------------------|-----------------------|-------------------------|-------------------------|------------------------|-------------------------|-------------------------|-------------------------|---------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| 6047 | .996 ± .030 | .237 ± .011 | .1018 ± .0025 | .920 ± .019 | 1.01 ± .03 | .0079 ± .0005 | .0495 ± .0020 | .0955 ± .0025 | .0023 ± .0002 | .0005 ± .0002 | .0103 ± .0007 | .0025 ± .0002 | .0024 ± .0002 | .0003 ± .0002 | .0042 ± .0003 |
| 6054 | 1.185 ± .038 | .325 ± .011 | .0096 ± .0010 | .643 ± .015 | 1.18 ± .03 | .0960 ± .0035 | .0122 ± .0007 | .1845 ± .0040 | .0043 ± .0003 | .0483 ± .0020 | .0004 ± .0001 | .0188 ± .0006 | .0233 ± .0010 | .0095 ± .0005 | .0102 ± .0004 |
| 755 | .430 ± .012 | .255 ± .010 | .0481 ± .0012 | .0201 ± .0006 | .474 ± .007 | - - | .0103 ± .0004 | .0319 ± .0010 | .0051 ± .0002 | .0143 ± .0004 | .0387 ± .0010 | .0229 ± .0007 | .0096 ± .0003 | | |
| 849 | .613 ± .020 | .613 ± .012 | .753 ± .015 | .0504 ± .0013 | .629 ± .012 | .1308 ± .0032 | .0060 ± .0003 | .2497 ± .0100 | .00010 ± .00004 | .0015 ± .0003 | .0203 ± .0010 | .0122 ± .0005 | .0043 ± .0003 | .1164 ± .0026 | .0258 ± .0008 |
| 872 | .840 ± .040 | .048 ± .002 | .2000 ± .0080 | .1130 ± .0025 | .910 ± .030 | .2240 ± .0060 | (.08) | .0660 ± .0025 | .0003 ± .0001 | .0770 ± .0040 | .0690 ± .0050 | .0065 ± .0004 | .0890 ± .0050 | | |
| 893 | .210 ± .015 | .150 ± .005 | .0100 ± .0014 | .0026 ± .0005 | .335 ± .010 | .0044 ± .0007 | .0036 ± .0003 | .0130 ± .0010 | .0012 ± .0001 | .0043 ± .0008 | .0049 ± .0010 | .0006 ± .0002 | .0285 ± .0025 | | |
| 637C/01 remplace 9902 | 1.569 ± .031 | .377 ± .008 | .379 ± .010 | .304 ± .008 | 1.468 ± .021 | .3514 ± .0073 | .1026 ± .0023 | .0011 ± .0004 | | .0200 ± .0006 | .0022 ± .0003 | .0291 ± .0009 | .0648 ± .0014 | .0515 ± .0011 | .0495 ± .0014 |

The range is established with a 95 % level of confidence.

Figures in brackets are given for reference but should not be used as calibration values in any case

Last updated on February 1, 2008.

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ALUMINIUM-SILICON ALLOYS AL-SI
 AISi11 ; AISi14
 Form C'

CONTENTS IN %

| CODE | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Be | Pb | Sn | Sb | Sr | Ti |
|------|----------------|-------------------|---------------------|-------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| 9615 | 8.39 ± .09 | .999 ± .012 | .0934 ± .0022 | .539 ± .011 | .0142 ± .0002 | .0996 ± .0022 | .0938 ± .0040 | .1336 ± .0028 | .00026 ±.00002 | .0024 ± .0002 | .0181 ± .0004 | <= .0001 | .0105 ± .0015 | .0872 ± .0023 |
| 9618 | 14.08 ± .10 | .293 ± .005 | .1564 ± .0075 | .146 ± .004 | .193 ±.003 | .0100 ± .0002 | .0042 ± .0003 | .0039 ± .0006 | .00253 ±.00010 | .0907 ± .0023 | .0579 ± .0015 | .0186 ± .0032 | .0451 ± .0015 | .0132 ± .0004 |
| 9619 | 13.70 ± .09 | .293 ± .005 | .1529 ± .0033 | .145 ± .004 | .193 ±.004 | .0099 ± .0003 | .0043 ± .0002 | .0037 ± .0005 | .00252 ±.00008 | .0906 ± .0024 | .0587 ± .0016 | .0160 ± .0014 | .0450 ± .0014 | .0136 ± .0003 |
| 9620 | 11.32 ± .11 | .470 ± .008 | .0256 ± .0014 | .331 ± .007 | .0500 ± .0010 | .0390 ± .0008 | .0572 ± .0016 | .0926 ± .0024 | .00095 ±.00002 | .0180 ± .0012 | .0948 ± .0029 | .0095 ± .0011 | .1625 ± .0034 | .1575 ± .0028 |
| 9621 | 11.35 ± .10 | .464 ± .006 | .0260 ± .0014 | .327 ± .007 | .0521 ± .0019 | .0377 ± .0008 | .0572 ± .0016 | .0919 ± .0025 | .00096 ±.00003 | .0177 ± .0012 | .0944 ± .0025 | .0076 ± .0013 | .1127 ± .0029 | .1623 ± .0074 |
| 9624 | 12.80 ± .09 | .057 ± .002 | .0019 ± .0004 | .021 ± .001 | .0902 ± .0018 | .0018 ± .0001 | .0180 ± .0006 | .0492 ± .0014 | .000002 ±.000001 | .0547 ± .0013 | <= .0004 | .0054 ± .0007 | .0004 ± .0002 | .0552 ± .0014 |
| 9626 | 11.33 ± .07 | .471 ± .008 | .0249 ± .0013 | .327 ± .007 | .0507 ± .0008 | .0382 ± .0007 | .0579 ± .0015 | .0931 ± .0023 | .00096 ±.00003 | .0178 ± .0007 | .0936 ± .0024 | .0074 ± .0006 | .1118 ± .0022 | .1510 ± .0075 |

The range is established with a 95 % level of confidence.
 Last updated on 16 April 2002.

ALUMINIUM-SILICON ALLOYS AL-SI
 AlSi2MgTi ; AlSi4Mg ; 4103
 Form C'

CONTENTS IN %

| CODE | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Cd | Pb | Sb | Sn | Ti |
|-------------|----------------------|--------------------------|----------------------------|--------------------------|--------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|--------------------------------|----------------------------|----------------------------|
| 1005 | 2.14 ± .05 | .351 ± .017 | .1011 ± .0027 | .402 ± .007 | .573 ± .018 | .0609 ± .0019 | .0914 ± .0024 | .051 ± .002 | .0040 ± .0005 | .021 ± .001 | .0026 ± .0003 | .091 ± .004 | .070 ± .002 |
| 356 | 1.95 ± .09 | .340 ± .011 | .0990 ± .0045 | .405 ± .012 | .620 ± .032 | .0580 ± .0040 | .0960 ± .0050 | .052 ± .004 | | .022 ± .002 | < .001> | .098 ± .008 | .060 ± .004 |
| 358 | 1.10 ± .06 | .558 ± .017 | .0650 ± .0035 | .108 ± .004 | .208 ± .013 | .0023 ± .0006 | .0575 ± .0035 | .111 ± .006 | | .080 ± .006 | < .001> | .051 ± .003 | .166 ± .011 |
| 9906 | 3.92 ± .20 | .423 ± .010 | .0132 ± .0006 | .034 ± .001 | .928 ± .049 | .0114 ± .0004 | .0378 ± .0030 | .0033 ± .0004 | .0043 ± .0006 | .0023 ± .0003 | | .0003 ± .0001 | .0259 ± .0007 |

The range is established with a 95 % level of confidence.

Last updated on 16 April 2002.

ALUMINIUM-SILICON ALLOYS AL-SI
 AlSi5Mg ; AlSi7Mg
 Form C'

CONTENTS IN %.

| CODE | Si | Fe | Cu | Mn | Mg | Ni | Zn | Pb | Sb | Sn | Ti |
|-------|---------------|----------------|---------------------|---------------------|----------------|---------------------|---------------------|---------------------|----------------|---------------------|---------------------|
| 10110 | 6.84 ± .09 | .198 ± .003 | .0063 ± .0002 | .2986 ± .0034 | .602 ± .009 | .0027 ± .0002 | .1551 ± .0052 | .0040 ± .0002 | .210 ± .013 | .0208 ± .0009 | .1031 ± .0018 |
| 10120 | 6.86 ± .09 | .199 ± .003 | .0063 ± .0002 | .3001 ± .0033 | .607 ± .009 | .0025 ± .0002 | .1508 ± .0031 | .0041 ± .0001 | .205 ± .013 | .0208 ± .0008 | .1021 ± .0018 |
| 1013 | 6.84 ± .09 | .197 ± .004 | .0062 ± .0002 | .3000 ± .0031 | .605 ± .010 | .0025 ± .0002 | .1505 ± .0034 | .0041 ± .0001 | .245 ± .013 | .0205 ± .0009 | .1027 ± .0020 |
| 1014 | 6.86 ± .09 | .196 ± .003 | .0062 ± .0002 | .3011 ± .0031 | .593 ± .008 | .0027 ± .0002 | .1504 ± .0024 | .0045 ± .0001 | .255 ± .013 | .0206 ± .0008 | .1015 ± .0018 |
| 1015 | 6.86 ± .12 | .200 ± .004 | .0062 ± .0002 | .2988 ± .0033 | .598 ± .011 | .0017 ± .0002 | .1516 ± .0042 | .0043 ± .0001 | .230 ± .013 | .0206 ± .0009 | .1015 ± .0018 |
| 1043 | 5.03 ± .13 | .012 ± .001 | .0061 ± .0004 | .2170 ± .0050 | .840 ± .020 | .0193 ± .0008 | .0315 ± .0015 | .0195 ± .0010 | .010 ± .001 | .0480 ± .0025 | .0425 ± .0015 |
| 1045 | 8.02 ± .20 | .287 ± .008 | .0610 ± .0030 | .0057 ± .0003 | .112 ± .005 | .0500 ± .0020 | .0870 ± .0020 | .1000 ± .0030 | .451 ± .014 | .0780 ± .0035 | .2550 ± .0220 |
| 1570 | 5.98 ± .15 | .087 ± .003 | .1030 ± .0040 | .0810 ± .0030 | .375 ± .008 | .0104 ± .0005 | .0495 ± .0015 | .0515 ± .0015 | .094 ± .004 | <= .0005 | .0195 ± .0015 |

The range is established with a 95 % level of confidence.

Last updated on 12 November 2003.

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ALUMINIUM-SILICON ALLOYS AL-SI
 AlSi9Mg ; AlSi10Mg
 Form C'

CONTENTS IN %

| CODE | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Pb | Sb | Sn | Ti |
|-------------|-----------------------|--------------------------|----------------------------|--------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|------------------------------|----------------------------|
| 1775 | 12.05 ± .25 | .306 ± .007 | .0570 ± .0020 | .371 ± .007 | .0265 ± .0015 | .0127 ± .0005 | .0975 ± .0030 | .1285 ± .0025 | .0307 ± .0010 | .1920 ± .0090 | <= .0015 | .0480 ± .0020 |
| 1779 | 10.55 ± .25 | .848 ± .015 | .1010 ± .0035 | .030 ± .001 | .1490 ± .0045 | .0232 ± .0011 | .0208 ± .0010 | .0675 ± .0020 | .0014 ± .0005 | .0056 ± .0010 | .0056 ± .0010 | .1540 ± .0020 |
| 6009 | 7.95 ± .25 | .592 ± .020 | .0350 ± .0030 | .152 ± .004 | .4340 ± .0130 | .0117 ± .0005 | .0490 ± .0020 | .0330 ± .0012 | .0064 ± .0006 | .0460 ± .0050 | .0293 ± .0030 | .0845 ± .0050 |
| 9323 | 9.66 ± .17 | .127 ± .002 | .0014 ± .0001 | .794 ± .010 | .5478 ± .0242 | .0005 ± .0001 | .0014 ± .0001 | .0043 ± .0003 | .0190 ± .0008 | .0950 ± .0051 | .0204 ± .0025 | .0116 ± .0004 |
| 9331 | 9.68 ± .17 | .129 ± .002 | .0021 ± .0001 | .925 ± .012 | .6082 ± .0142 | .0007 ± .0001 | .0013 ± .0001 | .0048 ± .0002 | .0194 ± .0006 | .0942 ± .0024 | .0186 ± .0025 | .0122 ± .0004 |

The range is established with a 95 % level of confidence.
 Last updated on 16 April 2002.

ALUMINIUM-SILICON ALLOYS AL-SI
Calcium, Sodium and Phosphorus content determination in A-S10
Form C'

CONTENTS IN %

| CODE | Si | Fe | Mg | Ti | Ca | Na | P |
|---------------|----------------|----------------|----------------|----------------|---------------------------|---------------------------|---------------------------|
| 8041 | (9.5) | (.14) | (.4) | (.09) | .00090 ± .00013 | .00053 ± .00004 | .00333 ± .00016 |
| 977 | (9.5) | (0.2) | (0.4) | (0.1) | 0.0022 ±0.0001 | 0.0009 ±0.0001 | 0.0017 ±0.0001 |
| 8045 | (9.8) | (.2) | (.4) | (.09) | .00887 ± .00026 | .00456 ± .00017 | .00027 ± .00001 |
| 8054-1 | (9.7) | (.11) | (.4) | (.1) | .01425 ± .00055 | .00806 ± .00047 | .00020 ± .00001 |
| 8054-2 | (9.7) | (.11) | (.4) | (.1) | .01442 ± .00061 | .00869 ± .00050 | .00020 ± .00001 |

The range is established with a 95 % level of confidence.

Figures in brackets are given for reference but should not be used as calibration values in any case

Last updated on 19 June 2006.

ALUMINIUM-SILICON ALLOYS AL-SI
Calcium, Sodium and Strontium content determination in ALSi7
Form C'

CONTENTS IN %

| CODE | Si | Fe | Mg | Ti | Ca | Na | Sr |
|-------------|--------------|---------------|---------------|---------------|---------------------------|------------------------------|---------------------------|
| 8035 | (7) | (.1) | (.4) | (.1) | .00057 ± .00014 | <= .0002 | .0801 ± .0018 |
| 9905 | (7) | (.1) | (.4) | (.1) | .02305 ± .00035 | .01447 ± .00041 | .00401 ± .00020 |
| 9913 | (7) | (.1) | (.4) | (.1) | .00311 ± .00015 | .00355 ± .00015 | .0454 ± .0008 |

The range is established with a 95 % level of confidence.

Figures in brackets are given for reference but should not be used as calibration values in any case

Last updated on 15 February 2005.

ALUMINIUM-SILICON ALLOYS AL-SI
Calcium, Sodium and Strontium content determination in ALSi7 - special page
Form C'

CONTENTS IN %

| CODE | Si | Fe | Mg | Ti | Ca* | Na* | Sr* |
|-------------|-------------|--------------|--------------|--------------|--------------|-------------|--------------|
| 932 | (7) | (.1) | (.4) | (.1) | .0065 | .009 | .0175 |

Si, Fe, Mg and Ti concentrations are given as an indication and can't be used as calibration values in any case.
Ca, Na and Sr concentrations increase simultaneously : Ca = 50 - 81 µg/g ; Na = 54 - 127 µg/g ; Sr = 140 - 211 µg/g

Figures in brackets are given for reference but should not be used as calibration values in any case
Last updated on 15 February 2005.

ALUMINIUM-SILICON ALLOYS AL-SI
Gallium and Antimony content determination in Al Si 10 Mg
Form C'

CONTENTS IN %

| CODE | Si | Fe | Mg | Ti | Ga | Sb |
|-------------|----------------|----------------|----------------|----------------|-------------------------|---------------------------|
| 9714 | (9.2) | (.04) | (.3) | (.11) | .0409 ± .0010 | .0148 ± .0007 |
| 9716 | (9.6) | (.18) | (.32) | (.15) | .0032 ± .0002 | .00010 ± .00002 |
| 9718 | (9.2) | (.08) | (.31) | (.1) | .0166 ± .0004 | .0115 ± .0006 |
| 9720 | (9.4) | (.11) | (.26) | (.1) | .0089 ± .0004 | .0060 ± .0006 |

The range is established with a 95 % level of confidence.

Figures in brackets are given for reference but should not be used as calibration values in any case

Last updated on 16 April 2002.

ALUMINIUM-SILICON ALLOYS AL-SI
Gallium and Antimony content determination in Al Si 7MG
Form C'

CONTENTS IN %

| CODE | Si | Fe | Mg | Ti | Ga | Sb |
|-------------|----------------|----------------|----------------|----------------|-------------------------|---------------------------|
| 9704 | (6.9) | (.04) | (.42) | (.12) | .0395 ± .0012 | .0194 ± .0006 |
| 9706 | (7) | (.2) | (.39) | (.13) | .0035 ± .0002 | .00046 ± .00002 |
| 9709 | (7.1) | (.08) | (.4) | (.1) | .0168 ± .0005 | .0115 ± .0006 |
| 9711 | (6.9) | (.16) | (.39) | (.1) | .0091 ± .0005 | .0063 ± .0005 |

The range is established with a 95 % level of confidence.

Figures in brackets are given for reference but should not be used as calibration values in any case

Last updated on 16 April 2002.

ALUMINIUM-SILICON ALLOYS AL-SI
Phosphorus content determination in AISi7
Form C'

CONTENTS IN %

| CODE | Si | Fe | Mg | Ti | P |
|-------------|----------------|---------------|---------------|----------------|---------------------------|
| 6049 | (7) | (.1) | (.3) | (.01) | .00004 ± .00001 |
| 6051 | (7) | (.1) | (.3) | (.01) | .00118 ± .00012 |
| 6052 | (7.1) | (.1) | (.3) | (.01) | .00210 ± .00022 |

The range is established with a 95 % level of confidence.

Figures in brackets are given for reference but should not be used as calibration values in any case

Last updated on 16 April 2002.

ALUMINIUM-SILICON-COPPER ALLOYS AL-SI-CU
 AISi12Cu3Ni3
 Form C'

CONTENTS IN %

| CODE | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Pb | Sn | Sb | Ti | Zr | V | B |
|-------|----------------|-------------------|---------------|-------------------|---------------|-------------------|-------------------|---------------------|---------------------|---------------------|---------------------|---------------------|-------------------|-------------------|---------------------|
| 01002 | 10.94 ± .17 | .076 ± .002 | 4.33 ± .05 | .305 ± .005 | 1.66 ± .02 | .062 ± .002 | .203 ± .004 | .2999 ± .0046 | .0517 ± .0020 | .0242 ± .0006 | .0403 ± .0014 | .2301 ± .0045 | .239 ± .004 | .125 ± .005 | < .0002 |
| 01006 | 14.83 ± .23 | .878 ± .011 | .50 ± .01 | .022 ± .001 | .31 ± .01 | .241 ± .005 | 3.93 ± .05 | .0187 ± .0006 | .1436 ± .0030 | .1483 ± .0029 | < .001 | .0078 ± .0003 | .145 ± .002 | .048 ± .001 | .0027 ± .0002 |
| 01007 | 13.23 ± .21 | .375 ± .005 | 2.35 ± .04 | .196 ± .003 | 1.12 ± .02 | .135 ± .003 | 1.93 ± .04 | .1887 ± .0033 | .0506 ± .0020 | .0505 ± .0012 | .0171 ± .0008 | .0929 ± .0018 | .309 ± .005 | .102 ± .002 | .0016 ± .0002 |
| 01008 | 12.44 ± .21 | .584 ± .008 | 1.46 ± .02 | .099 ± .002 | .77 ± .01 | .357 ± .009 | 2.68 ± .04 | .0989 ± .0023 | .0950 ± .0027 | .0969 ± .0019 | .0131 ± .0008 | .0475 ± .0011 | .262 ± .004 | | |
| 02002 | (9.2) | (.3) | (5.5) | (.1) | (2) | (.2) | (3.6) | .0036 ± .0006 | .0042 ± .0002 | .0043 ± .0002 | .0166 ± .0008 | (.1) | .057 ± .001 | (.1) | .0009 ± .0002 |

The range is established with a 95 % level of confidence.

Figures in brackets are given for reference but should not be used as calibration values in any case.

Last updated on 10 December 2002.

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ALUMINIUM-SILICON-COPPER ALLOYS AL-SI-CU
 AlSi12CuNi
 Form C'

CONTENTS IN %

| CODE | Si | Fe | Cu | Mn | Mg | Ni | Zn | Pb | Sn | Sb | Ti |
|------|----------------|----------------|---------------|----------------|---------------|---------------|----------------|---------------------|------------------|---------------------|----------------|
| 9524 | 11.69 ± .17 | .086 ± .002 | .50 ± .02 | .257 ± .007 | .49 ± .02 | .53 ± .02 | .148 ± .004 | (.098) | (.0984) | .0331 ± .0020 | .019 ± .001 |
| 9525 | 10.63 ± .09 | .345 ± .008 | 1.41 ± .04 | .141 ± .004 | 1.24 ± .03 | .80 ± .02 | .061 ± .002 | .0560 ± .0019 | .0574 ± .0030 | .0166 ± .0020 | .106 ± .003 |
| 9526 | 10.73 ± .10 | .347 ± .008 | 1.43 ± .04 | .140 ± .004 | 1.27 ± .03 | .81 ± .02 | .061 ± .002 | .0578 ± .0024 | .0579 ± .0030 | .0171 ± .0020 | .105 ± .003 |
| 9527 | 9.24 ± .07 | .557 ± .010 | 2.01 ± .04 | .056 ± .001 | 1.75 ± .03 | 1.52 ± .08 | .023 ± .001 | .0208 ± .0004 | .0210 ± .0005 | .0090 ± .0005 | .195 ± .006 |
| 9528 | 9.22 ± .08 | .556 ± .010 | 1.99 ± .04 | .055 ± .001 | 1.75 ± .03 | 1.50 ± .08 | .022 ± .001 | .0204 ± .0005 | .0200 ± .0006 | .0092 ± .0005 | .197 ± .006 |
| 9530 | 13.31 ± .10 | .724 ± .011 | .98 ± .03 | .006 ± .001 | .86 ± .02 | 1.04 ± .05 | .240 ± .007 | .0080 ± .0003 | .0079 ± .0003 | .0030 ± .0003 | .007 ± .001 |
| 9531 | 13.63 ± .10 | .722 ± .012 | .97 ± .03 | .006 ± .001 | .84 ± .02 | 1.01 ± .05 | .238 ± .007 | .0080 ± .0003 | .0077 ± .0003 | .0029 ± .0004 | .007 ± .001 |

The range is established with a 95 % level of confidence.

Figures in brackets are given for reference but should not be used as calibration values in any case

Last updated on 16 April 2002.

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ALUMINIUM-SILICON-COPPER ALLOYS AL-SI-CU
 AlSiCu
 Form C'

CONTENTS IN %

| CODE | Si | Fe | Cu | Mn | Mg | Ni | Zn | Pb | Sb | Sn | Ti |
|-------------|----------------------|-----------------------|----------------------|-----------------------|-----------------------|-------------------------|-----------------------|-------------------------|-----------------------|-----------------------|-----------------------|
| 1199 | 5.18 ± .12 | .065 ± .003 | 2.03 ± .05 | .564 ± .010 | .149 ± .004 | .0008 ± .0001 | .021 ± .001 | .030 ± .001 | .130 ± .005 | < .005 > | .068 ± .001 |
| 1206 | 3.00 ± .10 | .795 ± .020 | 4.29 ± .15 | .037 ± .001 | .570 ± .013 | .301 ± .006 | .154 ± .003 | .100 ± .003 | .025 ± .003 | .196 ± .008 | .093 ± .003 |
| 907 | 6.54 ± .12 | .198 ± .005 | 1.00 ± .02 | .356 ± .008 | .018 ± .001 | .0303 ± .0009 | .498 ± .008 | .0017 ± .0002 | .069 ± .003 | .030 ± .001 | .030 ± .001 |

The range is established with a 95 % level of confidence.

Last updated on 7 February 2005.

ALUMINIUM-SILICON-COPPER ALLOYS AL-SI-CU
 AlSi8Cu3 ; AlSi9Cu3
 Forme C'

CONTENTS IN %

| CODE | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Pb | Sn | Sb | Ti |
|------|----------------|-----------------|---------------|-------------------|-------------------|---------------------|---------------------|-----------------|-------------------|-------------------|---------------------|-------------------|
| 9533 | 5.88 ± .07 | .151 ± .004 | 4.92 ± .08 | .693 ± .018 | .037 ± .001 | .150 ± .002 | .0240 ± .0007 | .683 ± .014 | .013 ± .001 | .347 ± .009 | .023 ± .005 | .189 ± .005 |
| 9534 | 11.88 ± .09 | 1.204 ± .026 | .98 ± .03 | .038 ± .001 | .126 ± .004 | .0108 ± .0002 | .1389 ± .0037 | .049 ± .002 | .134 ± .003 | .076 ± .003 | .0004 ± .0001 | .016 ± .001 |
| 9536 | 11.91 ± .11 | 1.238 ± .027 | .98 ± .03 | .039 ± .001 | .129 ± .005 | .0122 ± .0002 | .1370 ± .0041 | .049 ± .002 | .133 ± .005 | .075 ± .003 | .0005 ± .0001 | .017 ± .001 |
| 9538 | 10.21 ± .09 | .895 ± .019 | 2.92 ± .05 | .189 ± .006 | .329 ± .007 | .0320 ± .0004 | .3578 ± .0080 | .295 ± .005 | .059 ± .002 | .197 ± .006 | .0009 ± .0002 | .114 ± .003 |
| 9539 | 8.23 ± .10 | .499 ± .014 | 3.90 ± .09 | .382 ± .009 | .551 ± .013 | .061 ± .002 | .5972 ± .0088 | 1.217 ± .023 | .284 ± .007 | .013 ± .001 | .010 ± .003 | .056 ± .002 |
| 9540 | 8.23 ± .08 | .500 ± .013 | 3.91 ± .09 | .385 ± .009 | .553 ± .013 | .061 ± .002 | .5978 ± .0149 | 1.219 ± .022 | .285 ± .006 | .012 ± .001 | .010 ± .003 | .057 ± .002 |

The range is established with a 95 % level of confidence.
 Last updated on 16 April 2002.

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ALUMINIUM-SILICON-COPPER ALLOYS AL-SI-CU
Calcium and SODIUM content determination in ALSi12CuNi
Form C'

CONTENT IN %

| CODE | Si | Fe | Cu | Mg | Ni | Ti | Ca | Na |
|---------------|---------------|---------------|----------------|----------------|----------------|---------------|---------------------------|--------------------------------|
| 1947 | (12) | (.1) | (1.4) | (1.2) | (1.1) | (.1) | .00010 ± .00004 | <= .000005 |
| 1948 | (12) | (.1) | (1.4) | (1.2) | (1.1) | (.1) | .00350 ± .00020 | .00126 ± .00010 |
| 1949-1 | (12) | (.1) | (1.5) | (1.2) | (1.1) | (.1) | .00735 ± .00025 | .00292 ± .00032 |
| 1949-2 | (12) | (.1) | (1.5) | (1.2) | (1.1) | (.1) | .00755 ± .00020 | .00320 ± .00040 |
| 1950-1 | (12) | (.1) | (1.4) | (1.3) | (1.1) | (.1) | .01230 ± .00040 | .00510 ± .00036 |
| 1950-2 | (12) | (.1) | (1.4) | (1.3) | (1.1) | (.1) | .01230 ± .00040 | .00552 ± .00060 |

The range is established with a 95 % level of confidence.

Figures in brackets are given for reference but should not be used as calibration values in any case

Last updated on 16 April 2002.

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ALUMINIUM-SILICON-COPPER ALLOYS AL-SI-CU
Calcium and Sodium content determination in ALSi18CuNiMg
Form C'

CONTENTS IN %

| CODE | Si | Fe | Cu | Mg | Ni | Ti | Ca | Na |
|--------------|---------------|---------------|--------------|----------------|--------------|---------------|---------------------------|---------------------------|
| 004 | (18) | (.1) | (1) | (1.2) | (1) | (.1) | .00019 ± .00007 | .00003 ± .00002 |
| 005-1 | (18) | (.1) | (1) | (1.2) | (1) | (.1) | .00345 ± .00035 | .00086 ± .00010 |
| 006-1 | (18) | (.1) | (1) | (1.2) | (1) | (.1) | .00890 ± .00050 | .00245 ± .00023 |
| 007-1 | (18) | (.1) | (1) | (1.2) | (1) | (.1) | .01280 ± .00070 | .00549 ± .00030 |

The range is established with a 95 % level of confidence.

Figures in brackets are given for reference but should not be used as calibration values in any case

Last updated on 16 April 2002.

ALUMINIUM-SILICON-COPPER ALLOYS AL-SI-CU
Calcium, Sodium and Phosphorus content determination in AlSi5Cu
Form C'

CONTENTS IN %

| CODE | Si | Fe | Cu | Mg | Ti | Ca | Na | P |
|---------------|------|-------|------|-------|-------|---------------------------|-----------------------------|---------------------------|
| 6075 | (5) | (.1) | (3) | (.3) | (.1) | .00973 ± .00045 | .00939 ± .00054 | .00038 ± .00014 |
| 6076-1 | (5) | (.1) | (3) | (.3) | (.1) | .00595 ± .00040 | .00480 ± .00030 | .00034 ± .00016 |
| 6076-2 | (5) | (.1) | (3) | (.3) | (.1) | .00595 ± .00040 | .00505 ± .00030 | .00034 ± .00010 |
| 6077 | (5) | (.1) | (3) | (.3) | (.1) | .00214 ± .00027 | .00183 ± .00016 | .00119 ± .00024 |
| 6078 | (5) | (.1) | (3) | (.3) | (.1) | .00176 ± .00020 | .00189 ± .00016 | .00114 ± .00024 |
| 6079 | (5) | (.1) | (3) | (.3) | (.1) | .00037 ± .00012 | .000025 ± .000009 | .00229 ± .00033 |

The range is established with a 95 % level of confidence.

Figures in brackets are given for reference but should not be used as calibration values in any case

Last updated on 05. July 2006.

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ALUMINIUM-SILICON-COPPER ALLOYS AL-SI-CU
Phosphorus determination in AlSi12CuNi
Form C'

CONTENTS IN %

| CODE | Si | Fe | Cu | Mg | Ni | Ti | P | Sr |
|------------|-------|-------|--------|--------|--------|-------|-------------------------|-------------------------|
| 9506 | (12) | (.5) | (1.2) | (1) | (.9) | (.1) | .0160 ± .0010 | . |
| 9507 | (12) | (.5) | (1.2) | (1) | (.9) | (.1) | .0165 ± .0010 | . |
| 9813- 2 | (11) | (.2) | (1.4) | (1.3) | (1.1) | (.1) | .0031 ± .0003 | .0034 ± .0002 |
| 9824- 1 | (11) | (.1) | (1.4) | (1.3) | (1.2) | (.1) | .0062 ± .0005 | .0021 ± .0001 |
| 9828- 1 | (12) | (.1) | (1.3) | (1.3) | (1.1) | (.1) | .0089 ± .0007 | .0015 ± .0001 |
| 9828- 2 | (12) | (.1) | (1.3) | (1.3) | (1.1) | (.1) | .0086 ± .0007 | .0015 ± .0001 |

The range is established with a 95 % level of confidence.

Figures in brackets are given for reference but should not be used as calibration values in any case

Last updated on 16 April 2002.

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ALUMINIUM COPPER ALLOYS
AlCu2MgNi ; 2618
Form C'

CONTENTS IN %

| CODE | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Be | Pb | Sn | Zr | Ti |
|-------------|--------------------------|--------------------------|----------------------|----------------------------|----------------------|----------------------------|--------------------------|----------------------------|----------------------------|------------------------------|----------------------------|----------------------------|----------------------------|
| 243 | .298 ± .011 | .630 ± .015 | 1.79 ± .04 | .1230 ± .0040 | 1.91 ± .05 | .0250 ± .0010 | 1.50 ± .04 | .0615 ± .0025 | | .0205 ± .0015 | .0215 ± .0020 | .0965 ± .0025 | .0635 ± .0030 |
| 244 | .145 ± .006 | .995 ± .020 | 2.40 ± .05 | .0665 ± .0020 | 1.52 ± .04 | .0665 ± .0025 | 1.05 ± .03 | .0075 ± .0005 | | <= .0003 | .0012 ± .0004 | .0465 ± .0020 | .1335 ± .0060 |
| 245 | .010 ± .001 | 1.28 ± .03 | 3.00 ± .07 | .0015 ± .0004 | 1.12 ± .03 | .0007 ± .0003 | .600 ± .025 | .1190 ± .0050 | | .0485 ± .0020 | .0490 ± .0040 | .1425 ± .0050 | .0113 ± .0015 |
| 9147 | .050 ± .005 | 1.30 ± .08 | 3.23 ± .13 | .0415 ± .0015 | 1.18 ± .05 | .0330 ± .0010 | .570 ± .025 | .1525 ± .0060 | .0130 ± .0006 | .1040 ± .0070 | .1000 ± .0050 | .1510 ± .0100 | .0245 ± .0015 |

The range is established with a 95 % level of confidence.
Last updated on 16 April 2002.

ALUMINIUM COPPER ALLOYS
AlCu4Mg ; AlCu4Mg1 ; 2017 ; 2024
Form C'

CONTENTS IN %

| CODE | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Be | Pb | Sn | Zr | Ti |
|------------|------------------------|----------------------------|----------------------|--------------------------|----------------------|----------------------------|----------------------------|----------------------------|---------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| 234 | 1.000 ± .034 | .0545 ± .0025 | 3.36 ± .10 | .296 ± .005 | 1.93 ± .06 | .0317 ± .0015 | .0470 ± .0020 | .1530 ± .0040 | .0045 ± .0003 | .0003 ± .0002 | .0470 ± .0040 | .0830 ± .0050 | .0140 ± .0025 |
| 241 | .073 ± .003 | .6990 ± .0140 | 5.15 ± .12 | .988 ± .013 | .33 ± .01 | .0123 ± .0005 | .0017 ± .0002 | .0101 ± .0007 | .0078 ± .0004 | .0011 ± .0003 | .0003 ± .0002 | .0016 ± .0002 | .0755 ± .0045 |
| 850 | .275 ± .008 | .1946 ± .0055 | 4.39 ± .07 | .692 ± .017 | 1.27 ± .02 | .0003 ± .0001 | .0113 ± .0005 | .0481 ± .0014 | .00012 ± .00003 | .0051 ± .0007 | .0097 ± .0010 | .1472 ± .0035 | .0011 ± .0001 |
| 960 | .586 ± .016 | .3200 ± .0120 | 3.76 ± .06 | .506 ± .011 | .80 ± .01 | .0630 ± .0014 | .0310 ± .0010 | .0892 ± .0022 | .0022 ± .0001 | .0286 ± .0010 | .0248 ± .0010 | .0312 ± .0010 | .0374 ± .0010 |

*The range is established with a 95 % level of confidence.
 Last updated on 5 October 2005.*

ALUMINIUM COPPER ALLOYS
AlCu4SiMg ; 2014 ; 2214
Form C'

CONTENTS IN %

| CODE | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Pb | Sn | Zr | Ti |
|-------------|------------------------|----------------------------|----------------------|------------------------|--------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| 1210 | .708 ± .021 | .0094 ± .0007 | 4.21 ± .14 | .622 ± .009 | .383 ± .009 | .0980 ± .0035 | .0997 ± .0045 | .2060 ± .0070 | .0200 ± .0015 | .0014 ± .0003 | .0750 ± .0045 | .0835 ± .0040 |
| 1211 | 1.160 ± .037 | .1180 ± .0060 | 3.52 ± .12 | 1.004 ± .016 | .820 ± .020 | .0625 ± .0025 | .0348 ± .0020 | .0100 ± .0010 | .0007 ± .0004 | .0815 ± .0050 | .0013 ± .0004 | .1750 ± .0090 |
| 266 | .516 ± .012 | .5240 ± .0160 | 4.88 ± .10 | .395 ± .007 | .185 ± .004 | .0030 ± .0003 | .0032 ± .0004 | .0585 ± .0035 | .0550 ± .0020 | .0270 ± .0025 | .1230 ± .0055 | .0275 ± .0020 |

*The range is established with a 95 % level of confidence.
Last updated on 16 April 2002.*

ALUMINIUM COPPER ALLOYS
AlCu5MgTi ; AlCu6MnMgTi ; 2001 ; 2219 ; 2319 ; 2419 ; 2519
Form C'

CONTENTS IN %

| CODE | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Be | Pb | Sn | V | Zr | Ti |
|------------|----------------------------|----------------------------|----------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|------------------------------|----------------------------|----------------------------|----------------------------|------------------------------|----------------------------|
| 268 | .0050 ± .0020 | .0030 ± .0005 | 3.65 ± .07 | .0003 ± .0002 | .3980 ± .0090 | .0099 ± .0005 | .0495 ± .0015 | .0010 ± .0002 | .0021 ± .0002 | .0488 ± .0015 | .0490 ± .0020 | .0008 ± .0003 | <= .0005 | .2310 ± .0140 |
| 269 | .0290 ± .0020 | .0490 ± .0015 | 4.30 ± .07 | .0540 ± .0010 | .2350 ± .0055 | .0410 ± .0012 | .0292 ± .0012 | .0243 ± .0010 | .0048 ± .0003 | .0310 ± .0015 | .0310 ± .0015 | .0083 ± .0005 | .0008 ± .0003 | .1715 ± .0095 |
| 286 | .0385 ± .0030 | .0395 ± .0015 | 6.90 ± .13 | .2490 ± .0032 | .0012 ± .0004 | .0005 ± .0001 | .0284 ± .0012 | .0039 ± .0005 | <= .0001 | .0327 ± .0013 | .0405 ± .0025 | .1290 ± .0050 | .1465 ± .0045 | .0130 ± .0007 |
| 288 | .0860 ± .0040 | .1260 ± .0025 | 5.10 ± .10 | .1510 ± .0017 | .0860 ± .0020 | .0640 ± .0022 | .0112 ± .0004 | .0540 ± .0015 | .0076 ± .0005 | .0115 ± .0008 | .0120 ± .0010 | .0600 ± .0025 | .0375 ± .0020 | .1340 ± .0050 |
| 289 | .1950 ± .0080 | .3080 ± .0070 | 6.05 ± .15 | .3730 ± .0045 | .0475 ± .0016 | .0325 ± .0012 | .0028 ± .0005 | .0890 ± .0020 | .00007 ± .00004 | .0006 ± .0003 | .0019 ± .0004 | .0850 ± .0025 | .1005 ± .0040 | .0535 ± .0018 |

*The range is established with a 95 % level of confidence.
 Last updated on 16 April 2002.*

ALUMINIUM COPPER ALLOYS
AlCuMg
Form C

CONTENTS IN %

| CODE | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Pb | Ti |
|--------|-----|-----|----|------|-----|------|------|-----|------|-----|
| 3977-2 | .07 | .11 | 1 | .02 | .92 | .01 | .01 | .02 | .05 | .01 |
| 4025 | .05 | .06 | 1 | .003 | .95 | .001 | .001 | .01 | .001 | .05 |

Last updated on 18 May 2006.

ALUMINIUM-ZINC ALLOYS AL-ZN
AlZn4Mg ; AlZn5Mg ; 7008 ; 7011 ; 7015 ; 7017 ; 7018 ; 7019 ; 7020
Form C'

CONTENTS IN %

| CODE | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Be | Pb | Sn | Zr | Ti |
|------|-------------------|-------------------|---------------------|-------------------|-----------------|-------------------|---------------------|--------------|---------------------|------------------|---------------------|---------------------|---------------------|
| 246 | .260 ± .008 | .673 ± .014 | .394 ±.011 | .308 ± .007 | .504 ±.016 | .392 ± .012 | .0029 ± .0002 | 4.93 ±.10 | .0059 ± .0003 | .050 ±.003 | .050 ±.003 | .0103 ± .0005 | .0051 ± .0005 |
| 248 | .460 ± .020 | .375 ± .015 | .258 ±.007 | .418 ± .008 | 1.49 ±.04 | .056 ± .002 | .035 ±.002 | 4.90 ±.10 | .0002 ± .0001 | .100 ±.003 | .101 ±.004 | .055 ±.002 | .153 ±.010 |
| 250 | .038 ± .002 | .172 ± .008 | .079 ±.005 | .170 ± .005 | 2.02 ±.07 | .154 ± .005 | .063 ±.004 | 3.95 ±.12 | .0020 ± .0001 | 0.0089 ±.0003 | .0093 ± .0003 | .1889 ±.007 | .0099 ± .0003 |
| 756 | .128 ± .007 | .105 ± .009 | .0127 ± .0004 | .050 ± .001 | 0.971 ±.0015 | .270 ± .006 | .0093 ± .0004 | 5.79 ±.13 | .0014 ± .0002 | .013 ±.001 | .012 ±.001 | .1889 ± .0036 | .0078 ± .0007 |
| 257 | .056 ± .005 | .058 ± .003 | .062 ±.003 | .450 ± .008 | 2.55 ±.10 | .253 ± .007 | .115 ±.004 | 2.91 ±.09 | <= .0002 | .098 ±.005 | .103 ±.004 | . | .200 ±.025 |

The range is established with a 95 % level of confidence.
Last updated on 19 May 2006.

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Catalogue PECHINEY - Octobre 2008
ALUMINIUM-ZINC ALLOYS AL-ZN
AlZn5MgCu ; AlZn6MgCu ; 7075 ; 7175 ; 7475 ; 7975
Form C'

CONTENTS IN %

| CODE | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Be | Cd | Na | Pb | Sn | V | Zr | Ti |
|------|-----------------------|-----------------------|----------------------|-------------------------|----------------------|-----------------------|-------------------------|----------------------|-----------------------------------|----------------------------------|-----------------------------------|-------------------------|----------------------------------|-------------------------|-------------------------|-------------------------|
| 6017 | .247 ± .08 | .014 ± .001 | 1.52 ± .05 | .265 ± .009 | 2.37 ± .07 | .018 ± .001 | .052 ± .003 | 5.63 ± .12 | .0090 ± .0008 | .0077 ± .0006 | .00053 ± .00010 | .0163 ± .0010 | .0158 ± .0011 | .0311 ± .0015 | .1380 ± .0030 | .0095 ± .0006 |
| 6018 | .027 ± .002 | .264 ± .010 | 1.47 ± .04 | .165 ± .005 | 2.26 ± .07 | .294 ± .009 | .0302 ± .0020 | 5.42 ± .11 | .0036 ± .0004 | .0178 ± .0010 | .00090 ± .00020 | .0285 ± .0012 | .0274 ± .0016 | .0251 ± .0012 | .0160 ± .0015 | .0710 ± .0025 |
| 619 | .096 ± .005 | .086 ± .002 | 1.47 ± .04 | .0201 ± .0005 | 2.43 ± .05 | .143 ± .006 | .0002 ± .0001 | 5.62 ± .08 | <= .00001> | <= .0001> | <= .00004> | .0004 ± .0002 | <= .0001> | .0012 ± .0001 | .0885 ± .002 | .0294 ± .0010 |
| 9151 | (.1) | (.15) | 2.08 ± .08 | (.05) | (2.5) | (.2) | (.01) | (5.6) | (.003) | (.005) | () | (.005) | (.005) | (.005) | () | (.02) |
| 9152 | (.1) | (.15) | (1.5) | (.05) | 1.47 ± .06 | (.2) | (.01) | (5.6) | (.003) | (.005) | () | (.005) | (.005) | (.005) | () | (.02) |
| 9153 | (.1) | (.15) | (1.5) | (.05) | 3.28 ± .12 | (.2) | (.01) | (5.6) | (.003) | (.005) | () | (.005) | (.005) | (.005) | () | (.02) |
| 9154 | (.1) | (.15) | (1.5) | (.05) | (2.5) | (.2) | (.01) | 4.68 ± .12 | (.003) | (.005) | () | (.005) | (.005) | (.005) | () | (.02) |
| 9156 | .260 ± .010 | .048 ± .005 | 1.45 ± .05 | .298 ± .010 | 2.50 ± .10 | .106 ± .004 | .0590 ± .0030 | 5.70 ± .15 | .0020 ± .0005 | .0105 ± .0010 | | .0150 ± .0015 | .0170 ± .0010 | .0315 ± .0020 | | .0110 ± .0010 |
| 9157 | (.1) | (.15) | (1.5) | (.05) | (2.5) | (.2) | (.01) | 6.7 ± .2 | (.003) | (.005) | () | (.005) | (.005) | (.005) | () | (.02) |

The range is established with a 95 % level of confidence.

Figures in brackets are given for reference but should not be used as calibration values in any case

Last updated on 16 April 2002.

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Catalogue PECHINEY - Octobre 2008
ALUMINIUM-ZINC ALLOYS AL-ZN
AIZN8MgCu ; 7049
Form C'

CONTENTS IN %

| CODE | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Be | Pb | Sn | V | Zr | Ti |
|--------------|--------------------------|--------------------------|---------------------|--------------------------|---------------------|--------------------------|----------------------------|---------------------|----------------------------|----------------------------|-----------------------------|----------------------------|--------------------------|--------------------------|
| 10832 | .090 ± .007 | .127 ± .006 | 1.55 ±.06 | .023 ± .001 | 2.80 ±.10 | .143 ± .005 | .0020 ± .0005 | 7.65 ±.30 | .0013 ± .0002 | .0070 ± .0006 | <= .002 | .0045 ± .0005 | .164 ± .005 | .014 ± .001 |
| 10836 | .195 ± .015 | .051 ± .003 | 1.55 ±.05 | .350 ± .010 | 2.85 ±.10 | .048 ± .003 | .0200 ± .0015 | 7.8 ±.3 | .0029 ± .0003 | .0520 ± .0040 | .0235 ± .0015 | .0125 ± .0010 | .098 ± .004 | .040 ± .003 |
| 10838 | (.08) | (.12) | .76 ±.03 | (.02) | (2.8) | (.15) | (.) | (7.8) | (.001) | (.) | (.001) | (.005) | (.) | (.01) |
| 10839 | (.08) | (.12) | 2.32 ±.09 | (.02) | (2.8) | (.15) | (.) | (7.8) | (.001) | (.) | (.001) | (.005) | (.) | (.01) |
| 10840 | (.08) | (.12) | (1.6) | (.02) | 2.15 ±.06 | (.15) | (.) | (7.8) | (.001) | (.) | (.001) | (.005) | (.) | (.01) |
| 10841 | (.08) | (.12) | (1.6) | (.02) | 3.60 ±.15 | (.15) | (.) | (7.8) | (.001) | (.) | (.001) | (.005) | (.) | (.01) |
| 10843 | (.08) | (.12) | (1.6) | (.02) | (2.8) | (.15) | (.) | 6.40 ±.25 | (.001) | (.) | (.001) | (.005) | (.) | (.01) |
| 11116 | .031 ± .002 | .158 ± .008 | 1.55 ±.06 | .156 ± .005 | 2.80 ±.10 | .208 ± .010 | .0480 ± .0030 | 7.70 ±.25 | .0053 ± .0006 | .0220 ± .0015 | .0500 ± .0030 | .0355 ± .0025 | .052 ± .002 | .031 ± .003 |
| 757 | (.08) | (.12) | 1.53 ±.04 | (.02) | 2.70 ±.07 | (.15) | (.) | 9.54 ±.19 | (.001) | (.) | (.001) | (.005) | (.) | (.01) |

The range is established with a 95 % level of confidence.

Figures in brackets are given for reference but should not be used as calibration values in any case

Last updated on 16 April 2003.

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ALUMINIUM-ZINC ALLOYS AL-ZN
AlZn1 ; AlZn2 ; AlZn3Mg ; 7070 ; 7072 ; 7051
Form C'

CONTENTS IN %

| CODE | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Be | Pb | Sn | Zr | Ti |
|------|-------------------------|-------------------------|-------------------------|-------------------------|-----------------------|-------------------------|-------------------------|----------------------|------------------------------|------------------------------|-------------------------|-----------------------|-------------------------|
| 250 | .038 ± .002 | .172 ± .008 | .079 ± .005 | .170 ± .005 | 2.02 ± .07 | .154 ± .005 | .063 ± .004 | 3.95 ± .12 | .0095 ± .0007 | <= .0005 | .0020 ± .0004 | .116 ± .007 | .070 ± .007 |
| 254 | .1490 ± .0070 | .2720 ± .0100 | .1490 ± .0050 | .2200 ± .0040 | 1.01 ± .03 | .0960 ± .0040 | .0490 ± .0030 | 2.00 ± .05 | <= .0002 | .0520 ± .0020 | .0530 ± .0020 | . | .1240 ± .0090 |
| 255 | .3090 ± .0120 | .1450 ± .0040 | .2950 ± .0070 | .0590 ± .0012 | .258 ± .008 | .0520 ± .0025 | .0130 ± .0015 | 1.40 ± .03 | <= .0002 | .0110 ± .0008 | .0100 ± .0010 | . | .0340 ± .0015 |
| 257 | .056 ± .005 | .058 ± .003 | .062 ± .003 | .450 ± .008 | 2.55 ± .10 | .253 ± .007 | .115 ± .004 | 2.91 ± .09 | <= .0002 | .098 ± .005 | .103 ± .004 | . | .200 ± .025 |
| 258 | .0036 ± .0004 | .0033 ± .0005 | .0087 ± .0007 | .0075 ± .0005 | .050 ± .003 | .0052 ± .0006 | .0006 ± .0002 | .80 ± .02 | <= .0002 | .0004 ± .0002 | .0003 ± .0001 | . | .0013 ± .0002 |

The range is established with a 95 % level of confidence.
Last updated on 16 April 2002.

ALUMINIUM-MAGNESIUM ALLOYS AL-MG
5182
Form C'

CONTENTS IN %

| CODE | Si | Fe | Mn | Mg | V | As | B | Ca | Cd | Co | Hg | Li | Mo | Sb |
|------|-------|-------|-------|-------|-----------------------------|-------------------------|---------------------------|-------------------|---------------------------|---------------------------|---------------------------|-----------------------------|---------------------------|-----------------------------|
| 200 | (.14) | (.26) | (.36) | (4.8) | .00113 ± .00007 | .0031 ± .0004 | .00162 ± .00008 | (.00062) | .00226 ± .00012 | .00212 ± .0001 | .00232 ± .00015 | .00141 ± .00018 | .00010 ± .00005 | .00146 ± .00012 |
| 201 | (.15) | (.31) | (.38) | (4.6) | .00040 ± .00014 | (.0037) | .0037 ± .0002 | (.0007) | .0117 ± .0008 | .0095 ± .0003 | .0137 ± .0005 | .0094 ± .0008 | .0075 ± .0002 | .0093 ± .0013 |
| 202 | (.13) | (.28) | (.37) | (4.6) | .00193 ± .00012 | .0006 ± .0003 | .00013 ± .00003 | (.00004) | .00013 ± .00004 | .00015 ± .00002 | .00017 ± .00009 | .000009 ± .000003 | .00014 ± .00003 | .000009 ± .000001 |
| 203 | (.12) | (.28) | (.37) | (4.8) | .000024 ± .000002 | (.0037) | .00009 ± .00002 | (.00024) | .00003 | .00051 ± .00003 | < .00005 | .00006 ± .00002 | .0001 | .000013 ± .000001 |

The range is established with a 95 % level of confidence.

Figures in brackets are given for reference but should not be used as calibration values in any case

Last updated on 16 April 2002.

ALUMINIUM-MAGNESIUM ALLOYS AL-MG
Al-Mg06 ; 5005
Form C'

CONTENTS IN %

| CODE | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Be | Pb | Sn | V | Zr | Ti |
|-------------|--------------------------|--------------------------|----------------------------|----------------------------|------------------------|----------------------------|----------------------------|----------------------------|-----------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| 003 | .350 ± .020 | .610 ± .015 | .0065 ± .0010 | .0420 ± .0015 | .41 ± .01 | .0600 ± .0015 | .0290 ± .0020 | .0180 ± .0015 | | .0205 ± .0015 | .0300 ± .0020 | .0145 ± .0010 | | .0540 ± .0030 |
| 2330 | .029 ± .001 | .039 ± .002 | .1484 ± .0030 | .2494 ± .0030 | 1.324 ± .020 | .0002 ± .0001 | .0015 ± .0001 | .1485 ± .0030 | .00295 ± .00010 | .0213 ± .0010 | .0512 ± .0020 | .0190 ± .0007 | .0868 ± .0030 | .1115 ± .0055 |
| 2340 | .097 ± .003 | .189 ± .004 | .1007 ± .0020 | .0016 ± .0002 | 1.009 ± .015 | .0510 ± .0015 | .0208 ± .0010 | .0979 ± .0020 | .00127 ± .00008 | .0302 ± .0015 | .0996 ± .0030 | .0349 ± .0010 | .0455 ± .0015 | .0562 ± .0020 |
| 2350 | .197 ± .005 | .374 ± .007 | .0517 ± .0015 | .0506 ± .0012 | .669 ± .011 | .0985 ± .0030 | .0519 ± .0015 | .0498 ± .0015 | .00044 ± .00005 | .0106 ± .0005 | .0203 ± .0010 | .0273 ± .0008 | .0190 ± .0010 | .0231 ± .0008 |
| 2360 | .364 ± .007 | .564 ± .010 | .0008 ± .0001 | .1514 ± .0030 | .387 ± .006 | .1683 ± .0045 | .1015 ± .0025 | .0032 ± .0005 | < .000005> | .0007 ± .0003 | .0002 ± .0001 | .0080 ± .0005 | .0004 ± .0001 | .0022 ± .0003 |

The range is established with a 95 % level of confidence.

Last updated on 4 December 2003.

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ALUMINIUM-MAGNESIUM ALLOYS AL-MG
AlMg3 ; 5050 ; 5150 ; 5051 ; 5052 ; 5754 ; Al-Mg5 ; 5056 ; 5082 ; 5083 ; 5086 ; 5182
Form C'

CONTENTS IN %

| CODE | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Be | Na | Pb | Sn | Zr | Ti |
|-------------|-----------------------|-----------------------|-------------------------|-----------------------|----------------------|-------------------------|-------------------------|-------------------------|---------------------------|---------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| 6030 | .020 ± .001 | .014 ± .001 | .0680 ± .0030 | .154 ± .004 | 1.04 ± .03 | .0010 ± .0003 | .0180 ± .0009 | .215 ± .008 | .00002 ± .00001 | .00003 ± .00001 | .0132 ± .0010 | .0210 ± .0015 | .0755 ± .0030 | .0026 ± .0004 |
| 6033 | .019 ± .001 | .014 ± .001 | .0674 ± .0017 | .153 ± .003 | 1.05 ± .02 | .0010 ± .0003 | .0181 ± .0005 | .2136 ± .0021 | .00002 ± .00001 | .00005 ± .00003 | .0135 ± .0004 | .0205 ± .0008 | .0726 ± .0014 | .0027 ± .0003 |
| 6036 | .102 ± .003 | .276 ± .009 | .0065 ± .0004 | .383 ± .006 | 2.07 ± .04 | .1248 ± .0031 | .0487 ± .0011 | .0936 ± .0013 | .00096 ± .00007 | .00034 ± .00005 | .0195 ± .0009 | .0023 ± .0004 | .0504 ± .0011 | .0527 ± .0019 |
| 6038 | .172 ± .003 | .109 ± .003 | .1507 ± .0026 | .889 ± .011 | 3.00 ± .05 | .0444 ± .0011 | .0021 ± .0004 | .0583 ± .0007 | .00222 ± .00009 | .00009 ± .00003 | .0502 ± .0014 | .0009 ± .0003 | .0024 ± .0003 | .1035 ± .0034 |
| 6040 | .366 ± .006 | .545 ± .011 | .0981 ± .0020 | .035 ± .002 | 3.78 ± .06 | .2567 ± .0057 | .0794 ± .0024 | .0109 ± .0005 | .00528 ± .00017 | .00067 ± .00011 | .0025 ± .0004 | .0487 ± .0017 | .1293 ± .0026 | .1255 ± .0039 |
| 974 | 0.050 0.002 | 0.059 0.002 | 0.0495 0.0014 | 0.600 0.016 | 4.84 0.07 | 0.1553 0.0034 | 0.0198 0.0006 | 0.0297 0.0012 | 0.00031 0.00002 | 0.00022 0.00007 | 0.0062 0.0003 | 0.0098 0.0004 | 0.0143 0.0005 | 0.0385 0.0011 |

The range is established with a 95 % level of confidence.

ALUMINIUM-MAGNESIUM ALLOYS AL-MG
Bismuth and Sodium content determination in 5056
Form C'

CONTENTS IN %

| CODE | Si | Fe | Mn | Mg | Bi | Na |
|------------|------|------|-------|-------|---------------------------|---------------------------|
| 230 | (.1) | (.2) | (.15) | (4.6) | .00066 ± .00005 | .00038 ± .00007 |
| 231 | (.1) | (.2) | (.15) | (4.6) | < .00001 | .00002 ± .00001 |
| 232 | (.1) | (.2) | (.15) | (4.6) | .00198 ± .00020 | .00119 ± .00016 |
| 233 | (.1) | (.2) | (.15) | (4.6) | .00459 ± .00035 | .00202 ± .00026 |

The range is established with a 95 % level of confidence.

Figures in brackets are given for reference but should not be used as calibration values in any case

Last updated on 16 April 2002.

ALUMINIUM-MAGNESIUM ALLOYS AL-MG
Boron and Calcium content determination in 5005
Form C'

CONTENTS IN %

| CODE | Si | Fe | Mg | B | Ca |
|--------------|------|------|------|---------------------------|---------------------------|
| 212 | (.1) | (.2) | (.8) | .00011 ± .00004 | .00018 ± .00006 |
| 214 | (.1) | (.2) | (.8) | .00072 ± .00010 | .00060 ± .00011 |
| 215-1 | (.1) | (.2) | (.8) | .00235 ± .00030 | .00160 ± .00015 |
| 217-1 | (.1) | (.2) | (.8) | .00527 ± .00018 | .00212 ± .00016 |
| 217-2 | (.1) | (.2) | (.8) | .00527 ± .00018 | .00224 ± .00017 |

The range is established with a 95 % level of confidence.

Figures in brackets are given for reference but should not be used as calibration values in any case

Last updated on 16 April 2002.

ALUMINIUM-MAGNESIUM ALLOYS AL-MG
Boron, Sodium and (low) lead content determination in AlMgSi
Form C'

CONTENTS IN %

| CODE | Si | Fe | Mg | B | Na | Pb |
|-------------|------|------|------|---------------------------|-------------------------------|---------------------------|
| 6080 | (.5) | (.2) | (.5) | .00057 ± .00016 | .00038 ± .00008 | .00219 ± .00016 |
| 6081 | (.5) | (.2) | (.5) | .00014 ± .00006 | <= .00005 | .00031 ± .00009 |
| 6082 | (.5) | (.2) | (.5) | .00319 ± .00033 | .00134 ± .00015 | .00370 ± .00018 |
| 6083 | (.5) | (.2) | (.5) | .00899 ± .00040 | .00369 ± .00037 | .00660 ± .00026 |

The range is established with a 95 % level of confidence.

Figures in brackets are given for reference but should not be used as calibration values in any case

Last updated on 16 April 2002.

ALUMINIUM-MANGANESE AL-MN
A-M1 ; 3003 ; 3103 ; 3903 ; 3913
Form C'

CONTENTS IN %

| CODE | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Pb | Sn | Ti | Na | Zr |
|------------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|---------------|
| 391C/01 | 0,0205 | .0463 | 0,198 | 1.483 | .0123 | .0905 | .0258 | .0505 | .0200 | .0046 | .0847 | 0,00003 | 0,0011 |
| remplace 1240 | ± 0,0012 | ± .0011 | ± .0043 | ± .018 | ± .0006 | ± .0018 | ± .0040 | ± .0014 | ± .0008 | ± .0002 | ± .0034 | ± 0,00002 | ± 0,0001 |
| 1243 | .0880 | .2670 | .0049 | .629 | .0007 | .0016 | .0504 | .0090 | .0468 | .0470 | .0076 | | |
| | ± .0030 | ± .0090 | ± .0004 | ± .011 | ± .0004 | ± .0003 | ± .0017 | ± .0011 | ± .0011 | ± .0026 | ± .0004 | | |
| 665-1 | .2840 | .4768 | .1080 | 1.115 | .0223 | .0014 | .0034 | .0179 | .0010 | <= .0002> | .0248 | | |
| | ± .0059 | ± .0117 | ± .0021 | ± .012 | ± .0015 | ± .0001 | ± .0002 | ± .0005 | ± .0002 | | ± .0010 | | |
| 665-2 | .2840 | .4768 | .1080 | 1.115 | .0261 | .0014 | .0034 | .0179 | .0010 | <= .0002> | .0248 | | |
| | ± .0059 | ± .0117 | ± .0021 | ± .012 | ± .0025 | ± .0001 | ± .0002 | ± .0005 | ± .0002 | | ± .0010 | | |
| 758 | .4824 | .1488 | .5030 | .908 | .0992 | .0112 | .0022 | .0224 | .0051 | .0298 | .0384 | | |
| | ± .0129 | ± .0031 | ± .0136 | ± .013 | ± .0030 | ± .0004 | ± .0002 | ± .0007 | ± .0003 | ± .0010 | ± .0010 | | |
| 905 | .2041 | .6785 | .2962 | .412 | .1949 | .0416 | .0103 | .1484 | .0087 | .0054 | .0101 | | |
| | ± .0065 | ± .0147 | ± .0073 | ± .007 | ± .0054 | ± .0011 | ± .0004 | ± .0030 | ± .0003 | ± .0002 | ± .0004 | | |

The range is established with a 95 % level of confidence.

Last updated on February 1, 2008.

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ALUMINIUM-MANGANESE AL-MN
A-M1G ; 3004 ; 3005
Form' C'

CONTENTS IN %

| CODE | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Be | Pb | Sn | Zr | Ti |
|--------------|----------------------------|----------------------------|----------------------------|------------------------|------------------------|----------------------------|----------------------------|----------------------------|-----------------------------|---------------------------|----------------------------|----------------------------|----------------------------|
| 111 | .2904 ± .0078 | .3941 ± .0071 | .0095 ± .0006 | 1.163 ± .015 | 1.500 ± .028 | .0006 ± .0001 | .0035 ± .0002 | .0105 ± .0006 | .000015 ± .000008 | .0102 ± .0004 | .0004 ± .0001 | .0003 ± .0001 | .0043 ± .0003 |
| 112 | .0533 ± .0014 | .0936 ± .0020 | .1020 ± .0026 | 1.464 ± .019 | .416 ± .012 | .0511 ± .0010 | .0405 ± .0010 | .2006 ± .0046 | .00096 ± .00010 | .00013 ± .00004 | .0408 ± .0016 | .0448 ± .0008 | .0169 ± .0008 |
| 113 | .1729 ± .0031 | .2305 ± .0039 | .1981 ± .0035 | .977 ± .015 | .900 ± .016 | .0314 ± .0006 | .0227 ± .0007 | .0988 ± .0023 | .00054 ± .00008 | .0206 ± .0005 | .0198 ± .0013 | .0277 ± .0006 | .0537 ± .0016 |
| 114 | .4593 ± .0096 | .5446 ± .0115 | .2955 ± .0077 | .690 ± .014 | 1.077 ± .018 | .1023 ± .0017 | .0125 ± .0004 | .0390 ± .0010 | .00018 ± .00003 | .0403 ± .0014 | .0102 ± .0005 | .0096 ± .0004 | .0979 ± .0034 |
| 68451 | .07 | .1 | .06 | 1.45 | .41 | .01 | .04 | .18 | | .04 | .04 | | .02 |
| 68452 | .16 | .31 | .11 | 1.14 | .88 | .03 | .02 | .1 | | .02 | .02 | | .06 |

The range is established with a 95 % level of confidence.

Last updated on 16 April 2002.

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Catalogue PECHINEY - Octobre 2008
ALUMINIUM-MANGANESE AL-MN
A-M1G ; 3104
Form C'

CONTENTS IN %

| CODE | Si | Fe | Cu | Mn | Mg | V | As | Bi | Ca | Cd | Co | Hg | Li | Pb | Sb | Se |
|------------|-------|------|-------|-------|-------|---------------------------|--------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|--------------------|
| 137 | (.21) | (.3) | (.15) | (1.3) | (1.2) | .00012 ± .00004 | (< .0002) | .00027 ± .00007 | .00014 ± .00010 | .00011 ± .00004 | .00017 ± .00002 | .00010 ± .00005 | .00002 ± .00001 | <= .0002 | .00009 ± .00001 | < .00002 |
| 138 | (.22) | (.3) | (.15) | (1.3) | (1.2) | .00104 ± .00005 | (.0004) | .00153 ± .00009 | .00035 ± .00015 | .00113 ± .00005 | .00058 ± .00002 | .00043 ± .00005 | .00006 ± .00002 | .00125 ± .00016 | .00052 ± .00003 | < .00002 |
| 151 | (.21) | (.3) | (.16) | (1.3) | (1.2) | .00158 ± .00008 | (.0175) | .00365 ± .00014 | .00005 ± .00003 | .0021 ± .0005 | .00201 ± .00007 | .00142 ± .00008 | .00060 ± .00013 | <= .0002 | .0016 ± .0005 | < .00002 |
| 152 | (.21) | (.3) | (.16) | (1.3) | (1.2) | .00338 ± .00016 | (.0213) | .00021 ± .00005 | .00011 ± .00010 | .0106 ± .0007 | .0099 ± .0004 | .0064 ± .0003 | .00103 ± .00020 | .0102 ± .0005 | .0098 ± .0007 | < .00002 |

The range is established with a 95 % level of confidence.

Figures in brackets are given for reference but should not be used as calibration values in any case

Last updated on 16 April 2002.

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ALUMINIUM-MANGANESE AL-MN
Boron and Sodium content determination AlMn1Mg ; 3004 ; 3005
Form C'

CONTENTS IN %

| CODE | Si | Fe | Cu | Mn | Mg | B | Na |
|-------------|--------------|--------------|---------------|------------|------------|---------------------------|-----------------------------|
| 1225 | (.2) | (.3) | (.15) | (1) | (1) | .00260 ± .00030 | .00144 ± .00004 |
| 975 | (0.2) | (0.3) | (0.15) | (1) | (1) | 0.0022 0.0001 | 0.00018 0.00005 |
| 1226 | (.2) | (.3) | (.15) | (1) | (.9) | .01040 ± .00050 | .00344 ± .00030 |
| 1227 | (.2) | (.3) | (.15) | (1) | (.9) | .00048 ± .00005 | .000019 ± .000010 |
| 9826 | (.3) | (.3) | (.15) | (1) | (.9) | | .00081 ± .00015 |

The range is established with a 95 % level of confidence.

Figures in brackets are given for reference but should not be used as calibration values in any case

Last updated on 19 May 2006.

MISCELLANEOUS (ALLOYS MISC.)
 ALLIAGES SERIES 1000 ; 8000
 Form C'

CONTENTS IN %

| CODE | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Ga | Pb | Sb | Sn | Ti |
|-------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|------------------------------|----------------------------|----------------------------|----------------------------|
| 509 | .3210 ± .0071 | .5970 ± .0129 | .0705 ± .0019 | .0750 ± .0019 | .0566 ± .0020 | .0631 ± .0017 | .0363 ± .0007 | .1372 ± .0031 | .0170 ± .0005 | .0488 ± .0016 | .0400 ± .0013 | .0390 ± .0016 | .0404 ± .0009 |
| 6012 | .5750 ± .0165 | .7850 ± .0150 | .1420 ± .0030 | .1290 ± .0030 | .1210 ± .0035 | .0110 ± .0013 | .0097 ± .0005 | .197 ± .005 | .0226 ± .0010 | <= .0002 | .0022 ± .0004 | .0003 ± .0001 | .0485 ± .0015 |
| 6013 | .7650 ± .0210 | 1.200 ± .023 | .0472 ± .0015 | .3960 ± .0100 | .1730 ± .0040 | .028 ± . | .0243 ± .0009 | .0505 ± .0020 | | .0248 ± .0011 | | .0260 ± .0020 | .1990 ± .0060 |
| 6014 | .9400 ± .0280 | 1.580 ± .030 | .1950 ± .0040 | .2800 ± .0070 | .0442 ± .0017 | .0115 ± .0005 | .0046 ± .0002 | .0107 ± .0006 | | .0075 ± .0005 | | .0080 ± .0008 | .1420 ± .0060 |

The range is established with a 95 % level of confidence.
 Last updated on 16 April 2002.

**CALIBRATION SAMPLES
STANDARDIZATION SAMPLES
Form CC**

CONTENTS IN %

| CODE | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Ag | Be | Bi | Ca | Cd | Co | Ga | In | Li | Na | Pb | Sb | Sn | Sr | V | Zr | Ti |
|--------|-------|--------|------|--------|-------|-------|--------|-------|-------|--------|-------|--------|--------|-------|--------|----|--------|--------|--------|-------|--------|-------|-------|--------|--------|
| 1009 | 1.2 | .07 | .05 | .05 | 5.2 | | .05 | 7 | | .01 | | .03 | .01 | | .03 | | .01 | .03 | .03 | | .05 | | | .04 | .04 |
| 2004 | (1.1) | (0.11) | 0.08 | (0.07) | (6.1) | - | (0.07) | (7.7) | | (0.01) | | (0.03) | (0.02) | | (0.03) | | (0.01) | (0.03) | (0.04) | | (0.06) | | | (0.02) | (0.06) |
| 60548 | <.01 | <.01 | <.01 | <.001 | <.001 | <.001 | <.001 | <.001 | <.001 | <.001 | <.001 | <.001 | <.001 | <.001 | <.001 | | <.001 | <.001 | <.001 | <.001 | <.001 | <.001 | <.001 | <.001 | <.001 |
| 9806-1 | .08 | 1.3 | 6.9 | 1.9 | .08 | .3 | | .05 | | | .7 | | | .9 | | | | | | .4 | | | | | |

*ATTENTION : Figures in this table are given for reference, but should not be used as calibration values in any case.
Last updated on 19 May 2006.*

**CALIBRATION SAMPLES
STANDARDIZATION SAMPLES 2
Form CC**

CONTENTS IN %

| CODE | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Ag | Be | Bi | Ca | Cd | Co | In | Pb | Sb | Sn | Sr | V | Zr | Ti | P | B | Mo |
|---------------|-------------|------------|------------|------------|------------|------------|------------|------------|-----------|----|------------|----|----|------------|------------|-----------|-----------|-----------|-----------|------------|------------|------------|---|-------------|------------|
| 2150 | 10.6 | | .6 | .4 | .9 | .06 | .5 | 1.2 | .9 | | .02 | | | .04 | .06 | .8 | | .3 | .1 | .02 | | .3 | | | .04 |
| 9806-2 | .08 | 1.3 | 6.9 | 1.9 | .08 | .3 | | .05 | | | .7 | | | .9 | | | .4 | | | | | | | .009 | |
| 9807 | .08 | 1.3 | 6.8 | 1.9 | .08 | .3 | | .05 | | | .7 | | | .9 | | | .4 | | | | | | | .009 | |
| 9809 | 5.5 | .5 | | | | | 1.9 | | | | | | | | | | | | | .12 | .14 | .01 | | | |

*ATTENTION : Figures in this table are given for reference, but should not be used as calibration values in any case.
Last updated on 18 May 2006*

**MONITOR
1050**

CONTENTS IN %

| CODE | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Pb | Zr | Ti |
|------------|------------|------------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|--------------|-------------|
| 309 | .13 | .28 | .0024 | .0048 | .0004 | .0028 | .005 | .016 | .001 | .0003 | .005 |

*Contents indicated are given for reference but should not be used as calibration values.
Last updated on 15 April 2002.*

**MONITOR
1100**

CONTENTS IN %

| CODE | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Pb | Li | Na | Cd | Hg | Ti |
|-------------|-----------|------------|-------------|--------------|--------------|--------------|-------------|-------------|--------------|---------------|---------------|--------------|--------------|-------------|
| 9630 | .1 | .46 | .062 | .0123 | .0006 | .0216 | .008 | .054 | .0035 | .00007 | .00003 | .0002 | .0001 | .018 |

*Contents indicated are given for reference but should not be used as calibration values.
Last updated on 15 April 2002.*

**MONITOR
1200**

CONTENTS IN %

| CODE | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Li | Na | Cd | Hg | Pb | Ti |
|------------|------------|------------|--------------|--------------|--------------|--------------|-------------|-------------|---------------|------------------------------|-----------------------------|------------------------------|--------------|-------------|
| 310 | .16 | .58 | .0037 | .0078 | .0003 | .0028 | .004 | .017 | .00004 | < .00002 | < .0002 | < .00002 | .0019 | .004 |

*Contents indicated are given for reference but should not be used as calibration values.
Last updated on 15 April 2002.*

**MONITOR
2014**

CONTENTS IN %

| CODE | Si | Fe | Cu | Mn | Mg | Cr | Zn | Pb | Zr | Ti |
|-------------|-----------|------------|------------|------------|------------|--------------|-------------|--------------|-------------|-------------|
| 9632 | .8 | .32 | 4.1 | .71 | .48 | .0181 | .033 | .0096 | .033 | .022 |

*Contents indicated are given for reference but should not be used as calibration values.
Last updated on 15 April 2002.*

**MONITOR
3003**

CONTENTS IN %

| CODE | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Pb | Zr | Li | Na | Cd | Hg | Ti |
|------|-----|-----|-----|------|-------|-------|-----|------|-------|-----|--------|-------------|------------|-------|------|
| 9627 | .2 | .57 | .13 | 1.06 | .0004 | .0223 | .01 | .057 | .0065 | .01 | .00002 | < .00002 | < .0001 | .0001 | .022 |
| 9628 | .19 | .53 | .12 | 1.05 | .0005 | .0227 | .01 | .055 | .0063 | .01 | .00003 | < .00002 | < .0001 | .0001 | .024 |

*Contents indicated are given for reference but should not be used as calibration values.
Last updated on 15 April 2002.*

**MONITOR
3104**

CONTENTS IN %

| CODE | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Pb | Be | Na | Ti | Cd | Hg | Ca |
|------|-----|-----|-----|-----|------|------|------|------|------|--------|-------|------|------------|------------|-------|
| 327 | .23 | .35 | .16 | .93 | 1.18 | .025 | .004 | .016 | .002 | .00002 | .0006 | .007 | < .0001 | < .0001 | .0011 |

*Contents indicated are given for reference but should not be used as calibration values.
Last updated on 15 April 2002.*

**MONITOR
43X (AISI13)**

CONTENTS IN %

| CODE | Si | Fe | Cu | Mn | Mg | Ni | Zn | Sb | Na | Ca | P | Pb | Sn | Ti |
|------|------|-----|-----|------|------|------|-----|------------|------------|------------|-------|------|-------|------|
| 9326 | 12.8 | .15 | .01 | .005 | .003 | .003 | .01 | < .0003 | < .0004 | < .0007 | .0017 | .001 | .0003 | .006 |
| 9327 | 12.8 | .15 | .01 | .005 | .003 | .003 | .01 | < .0003 | < .0004 | < .0007 | .0017 | .001 | .0003 | .006 |

*Contents indicated are given for reference but should not be used as calibration values.
Last updated on 15 April 2002.*

**MONITOR
5005**

CONTENTS IN %

| CODE | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Pb | V | Zr | Ti | Ca | B | Na |
|------|----|-----|------|------|-----|------|-----------|------|------|------|-------|-----|-------|-------|-------|
| 325 | .1 | .27 | .003 | .005 | .74 | .011 | < .001 | .021 | .001 | .006 | .0005 | .01 | .0011 | .0007 | .0001 |

*Contents indicated are given for reference but should not be used as calibration values.
Last updated on 15 April 2002.*

**MONITOR
5052**

CONTENTS IN %

| CODE | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Pb | Na | Ca | Cd | Hg | Zr | Ti |
|------|-----|-----|------|------|------|-----|-----|------|-------|--------|-------|-------|-------|-----|------|
| 9614 | .08 | .18 | .043 | .055 | 2.28 | .21 | .01 | .051 | .0057 | .00006 | .0009 | .0001 | .0004 | .02 | .019 |

*Contents indicated are given for reference but should not be used as calibration values.
Last updated on 15 April 2002.*

**MONITOR
5182-01**

CONTENTS IN %

| CODE | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Pb | Be | Zr | Na | Ti | Ca | Cd |
|------|-----|-----|-------|----|------|-------|----|------|------|-------|----|-------------|------|-------|------------|
| 9324 | .11 | .24 | .0055 | .4 | 4.28 | .0007 | . | .014 | .007 | .0001 | . | < .00002 | .005 | .0003 | < .0001 |
| 9325 | .11 | .24 | .0069 | .4 | 4.33 | .0007 | . | .014 | .007 | .0001 | . | < .00002 | .005 | .0003 | < .0001 |

*Contents indicated are given for reference but should not be used as calibration values.
Last updated on 15 April 2002.*

**MONITOR
6060**

CONTENTS IN %

| CODE | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Ti | Na |
|------|-----|-----|------|-----|-----|-------|------|------|------|--------|
| 906 | .40 | .19 | .005 | .03 | .43 | <.004 | .005 | .019 | .011 | <.0001 |

*Contents indicated are given for reference but should not be used as calibration values.
Last updated on 15 December 2004.*

**MONITOR
61S Al10Mg**

CONTENTS IN %

| CODE | Si | Fe | Cu | Mn | Mg | Ni | Zn | Pb | Sn | Ca | Na | P | Sb | Sr | Ti |
|------|------|-----|------|------|-----|------|------|------|-------|-------|------|-------|-------|------|-----|
| 9521 | 10.4 | .13 | .015 | .005 | .18 | .003 | .024 | .001 | <.001 | .0032 | .001 | .001 | <.004 | .057 | .12 |
| 9522 | 10.4 | .13 | .015 | .005 | .18 | .003 | .024 | .001 | <.001 | .0032 | .001 | .0009 | <.004 | .057 | .12 |

*Contents indicated are given for reference but should not be used as calibration values.
Last updated on 15 April 2002.*

**MONITOR
67R Al Si7Mg**

CONTENTS IN %

| CODE | Si | Fe | Cu | Mn | Mg | Ni | Zn | Sb | Pb | Sn | Ti | Na | Ca | Sr | P |
|------|-----|-----|------|------|-----|------|------|-----|------|------------|-----|-------|-------|-------|-------|
| 9915 | 6.9 | .11 | .007 | .002 | .31 | .002 | .006 | .12 | .001 | < .0005 | .13 | .0002 | .0008 | .0015 | .0001 |

*Contents indicated are given for reference but should not be used as calibration values.
Last updated on 15 April 2002.*

**MONITOR
67 Si AlSi7Mg**

CONTENTS IN %

| CODE | Si | Fe | Cu | Mn | Mg | Ni | Zn | Pb | Sn | Ca | Na | P | Sb | Sr | Ti |
|------|-----|----|------|------|-----|------|------|------------|-------|-------|-------|-------|-----------|------|-----|
| 9519 | 6.6 | .1 | .017 | .006 | .34 | .003 | .019 | < .0001 | .0004 | .0045 | .001 | .001 | < .008 | .053 | .12 |
| 9520 | 6.6 | .1 | .012 | .005 | .34 | .003 | .017 | < .0001 | .0004 | .0044 | .0005 | .0009 | < .008 | .052 | .12 |

*Contents indicated are given for reference but should not be used as calibration values.
Last updated on 15 April 2002.*

**MONITOR
69B AlSi9Mg**

CONTENTS IN %

| CODE | Si | Fe | Cu | Mn | Mg | Ni | Zn | Sb | Na | Ca | P | Pb | Sn | Ti |
|-------------|------------|-----------|-------------|-------------|------------|-----------------|------------|------------------|------------------|--------------|--------------|------------------|--------------|------------|
| 9313 | 8.8 | .1 | .003 | .005 | .32 | <.002 | .01 | <.0003 | <.0004 | .0009 | .0011 | <.0004 | .0004 | .12 |

*Contents indicated are given for reference but should not be used as calibration values.
Last updated on 15 April 2002*

**MONITOR
7010**

CONTENTS IN %

| CODE | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Zr | Na | Ti |
|-------------|------------|------------|-------------|------------|-------------|-------------|-------------|-------------|------------|-------------------|-------------|
| 9401 | .04 | .12 | 1.58 | .01 | 2.29 | .006 | .007 | 5.84 | .13 | <.00002 | .032 |

*Contents indicated are given for reference but should not be used as calibration values.
Last updated on 15 April 2002.*

**MONITOR
82 Ph 2**

CONTENTS IN %

| CODE | Si | Fe | Cu | Mn | Mg | Ni | Zn | Pb | Sn | Sb | Ti | Ca | Na | P |
|------|------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-------|--------|-------|
| 9414 | 11.7 | .53 | 1.22 | .12 | .99 | .87 | .07 | .01 | .01 | .01 | .02 | .0006 | .00005 | .0074 |
| 9415 | 11.7 | .53 | 1.24 | .12 | 1 | .86 | .07 | .01 | .01 | .01 | .02 | .0006 | .00004 | .0058 |

*Contents indicated are given for reference but should not be used as calibration values.
Last updated on 15 April 2002.*

**MONITOR
AlSi18CuNiMg**

CONTENTS IN %

| CODE | Si | Fe | Cu | Mn | Mg | Ni | Zn | Pb | Sn | Sb | Ti | Sr | Ca | Na | P |
|------|------|-----|------|-----|------|-----|-----|------|------|-----|-----|-------|-------|-------|-------|
| 9601 | 17.3 | .43 | 1.21 | .12 | 1.09 | 1.1 | .07 | .006 | .004 | .02 | .08 | .0058 | .0026 | .0003 | .0086 |

*Contents indicated are given for reference but should not be used as calibration values.
Last updated on 15 April 2002.*

**MONITOR
AISI5Cu3**

CONTENTS IN %

| CODE | Si | Fe | Cu | Mn | Mg | Ni | Zn | Pb | Sn | Ti | Na | Ca | P |
|--------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|---------------|--------------|-------------|
| 20001 | 5.4 | .48 | 3.1 | .22 | .23 | .03 | .14 | .01 | .01 | .07 | .00004 | .0033 | .001 |

*Contents indicated are given for reference but should not be used as calibration values.
Last updated on 15 April 2002.*

**MONITOR
AISI6Cu3**

CONTENTS IN %

| CODE | Si | Fe | Cu | Mn | Mg | Ni | Zn | Sb | Na | Ca | Sr | P | Pb | Sn | Ti |
|-------------|------------|------------|------------|------------|-----------|------------|-----------|------------|-------------|-------------|-------------|-------------|------------|------------|------------|
| 9517 | 6.4 | .48 | 2.8 | .25 | .3 | .02 | .2 | .01 | .001 | .009 | .014 | .002 | .02 | .01 | .13 |

*Contents indicated are given for reference but should not be used as calibration values.
Last updated on 15 April 2002.*

MONITOR
AlSi8Cu3 ; AlSi9Cu3

CONTENTS IN %

| CODE | Si | Fe | Cu | Mn | Mg | Ni | Zn | Ti | Ca | Na | Pb | Sn |
|-------------|--------------|---------------|--------------|---------------|---------------|---------------|---------------|---------------|----------------|-----------------|---------------|----------------|
| 2001 | (8.5) | (0.7) | (2.9) | (0.23) | (0.22) | (0.05) | (0.13) | (0.08) | (0.002) | - | (0.07) | (0.012) |
| 2003 | (8.6) | (0.71) | (3) | (0.23) | (0.22) | (0.05) | (0.13) | (0.08) | (0.001) | (0.0003) | (0.07) | (0.012) |

*Contents indicated are given for reference but should not be used as calibration values.
Last updated on 16 May 2006*

MONITOR
AlCu5MgTi

CONTENTS IN %

| CODE | Si | Fe | Cu | Mn | Mg | Ni | Zn | Pb | Sn | Na | Ti |
|-------------|------------|-------------|------------|------------|------------|------------|------------|-------------|----|------------------------------|------------|
| 9321 | .07 | .013 | 4.2 | .02 | .27 | .01 | .04 | .001 | . | < .00002 | .21 |

*Contents indicated are given for reference but should not be used as calibration values.
Last updated on 15 April 2002.*