

## CERTIFICATE OF ANALYSIS

PV 204/1  
Check Sample for Nickel Alloy Type 825

	Certified Value	Standard Deviation
<b>C</b>	<b>0.017</b>	0.002
<b>Mn</b>	<b>0.773</b>	0.009
<b>P</b>	<b>0.014</b>	0.001
<b>S</b>	(<0.01)	
<b>Si</b>	<b>0.268</b>	0.003
<b>Cu</b>	<b>1.93</b>	0.08
<b>Ni</b>	<b>39.46</b>	0.28
<b>Cr</b>	<b>22.49</b>	0.12
<b>Fe</b>	<b>30.35</b>	0.15
<b>Mo</b>	<b>3.27</b>	0.032

Analysis listed as percent by weight

The certified values listed are the present estimate of the true value based on the results of our intralaboratory testings.

The method of analysis was the Optical Emission Spectrometry.

The standard deviations are based on the 95% confidence interval.

Data in parentheses are not certified and are provided for information only.

**Available form** : this material is available only in the form of a disc, approximately 40 mm in diameter and 25 mm thick.

**Source** : this material was produced by Krupp VDM, Altena, Germany.  
Inconel alloy 825, annealed.

**Homogeneity** : this material was tested for homogeneity using ASTM Standard Practice E 826 and found acceptable.

**Traceability** : the following Certified Reference Materials were used to validate the analytical data listed in this certificate : SRM 1245a, BS 825B, BS H8 and 215XHC5

**Intended use** : this material is intended for use in optical emission and X-ray spectrometric methods of analysis. The entire depth of the disc may be used.  
This material has been designed to assess and control the performance of instruments.  
As a check sample, it must not be used in calibration.

**Caution** : as with any bar material, avoid optical emission spectrometric burns in the center of the disc (5 mm radius), as some segregation may be present.

**Sample preparation** : for best analytical results, use the same method for preparing the analytical surface on all reference materials as you use for production specimens.  
Avoid overheating the disc during surface preparation.

**Safety notice** : a material safety data sheet is not required for this material. This material will not release or otherwise result in exposure to a hazardous chemical, under normal conditions of use.

Inquiries concerning this reference material should be directed to :

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Certified by : Pascal Bodo

on February 24 , 2003

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