

# BRAMMER STANDARD COMPANY, INC.

## Provisional Certificate of Analysis BS 180B

Certified Reference Material for High Manganese Stainless Steel (Nitronic 50) - UNS Number S20910

	Estimated Analysis <sup>1</sup>		Estimated Analysis <sup>1</sup>
Analysis listed as percent by weight			
Al	<0.05	Nb	0.14
As	<0.05	Ni	11.9
B	0.001	O	<0.05
C	0.02	P	0.018
Ca	<0.005	Pb	<0.005
Co	0.10	S	0.001
Cr	21.4	Si	0.45
Cu	0.20	Sn	<0.05
Fe	[58.8]	Ta	<0.05
Mg	<0.005	Ti	<0.05
Mn	4.6	V	0.15
Mo	2.2	W	0.04
N	0.33	Zr	<0.05

<sup>1</sup> The estimated value listed is the present best estimate of the true value. Values are given in weight percent.

**Form:** This CRM is machined in the form of a disc approximately 38 mm in diameter and 19 mm thick by Brammer Standard Company, Inc.

**A detailed final certificate of analysis will be supplied by November 01, 2018.**