

# BRAMMER STANDARD COMPANY, INC.

## Provisional Certificate of Analysis BS 4330MOD

Certified Reference Material for 4330M Alloy Steel - UNS Number K23080

	Estimated Analysis <sup>1</sup>		Estimated Analysis <sup>1</sup>
Analysis listed as percent by weight			
Al	0.032	Nb	0.008
As	<0.05	Ni	1.8
B	<0.005	O	<0.005
C	0.31	P	0.005
Ca	<0.005	Pb	<0.005
Co	0.035	S	0.001
Cr	0.85	Si	0.27
Cu	0.10	Sn	<0.05
Fe	[95.0]	Ti	0.003
Mg	<0.0005	V	0.08
Mn	0.92	W	0.001
Mo	0.48	Zr	0.002
N	<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 44 mm in diameter and 19 mm thick by Brammer Standard Company, Inc.

A detailed final certificate of analysis will be supplied by March 13, 2022.