

BRAMMER STANDARD COMPANY, INC.

Provisional Certificate of Analysis BS H-13A

Certified Reference Material for H-13 Tool Steel - UNS Number T20813

Estimated Analysis ¹		Estimated Analysis ¹	
	Analysis listed as percent by weight		
Al	<0.5	Nb	0.005
As	0.005	Ni	0.14
B	<0.005	O	<0.05
C	0.39	P	0.019
Ca	0.0003	Pb	0.0005
Co	0.03	S	0.004
Cr	5.1	Sb	0.003
Cu	0.080	Si	1.1
Fe	[90.2]	Sn	0.006
Mg	<0.005	Ti	<0.5
Mn	0.44	V	0.91
Mo	1.3	W	<0.5
N	<0.05	Zr	0.003

¹ 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 March 20, 2021.