

Brammer Standard Company, Inc.

Certificate of Analysis

B.S. 05E (ASTM PTP Number 2951)

Reference Material for AISI Steel Grade E52100

	Certified Value ¹	Estimate of Uncertainty ²		Certified Value ¹	Estimate of Uncertainty ²
Analysis listed as percent by weight					
C	1.03	0.01	N	0.0078	0.0006
Mn	0.35	0.01	Sn	0.012	0.003
P	0.013	0.001	Ti	0.003	0.001
S	0.016	0.001	V	0.006	0.001
Si	0.235	0.008	Informational Values ³		
Cu	0.199	0.005	As	(0.009)	
Ni	0.093	0.004	Ca	(0.0003)	
Cr	1.55	0.03	Mg	(0.00007)	
Mo	0.034	0.003	O	(0.0015)	
Al	0.012	0.002	W	(0.003)	
Co	0.009	0.002	Zn	(0.0003)	

¹ The certified value listed is the present best estimate of the true value based on the results of an interlaboratory testing program.

² The uncertainties listed are based on value judgments of the material inhomogeneity and the 95% confidence interval. The half-width confidence interval C(95%) is shown on page 2.

³ Values in parentheses are not certified and are provided for information only.

The requirements of ISO Guide 31, ISO Guide 34, ISO Guide 35, and ASTM Standard Guide E 1724 were generally followed for the preparation of this reference material and certificate of analysis. This is a reference material as defined by ISO Guide 30.

See reverse side for more information.

Certificate Number 05E-062496p1

Brammer Standard Company, Inc., 14603 Benfer Road, Houston, TX 77069-2895
Telephone (713) 440-9396 Fax (713) 440-4432