

BRAMMER STANDARD COMPANY, INC.

Provisional Certificate of Analysis BS 8620G

Certified Reference Material for ASTM A331 Grade 8620 - UNS Number G86200

	Estimated Analysis ¹		Estimated Analysis ¹
Analysis listed as percent by weight			
Al	0.027	Nb	0.002
As	0.005	Ni	0.58
B	<0.005	O	0.004
C	0.21	P	0.009
Ca	0.002	Pb	<0.005
Co	0.008	S	0.02
Cr	0.57	Sb	0.002
Cu	0.19	Si	0.26
Fe	[97.1]	Sn	0.009
H	<0.005	Ti	<0.005
Mg	<0.005	V	0.002
Mn	0.80	W	0.003
Mo	0.21	Zr	<0.005
N	0.008		

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 38mm in diameter and 19mm thick by Brammer Standard Company, Inc.

A detailed final certificate of analysis will be supplied by February 08, 2025.

8620G	Al	As	B	Be	Bi	C	Ca	Ce	Co	Cr	Cu	Fe	H	Mg
CSO NH						0.215							0.00011	
BSC SAES	0.0277	0.005	0.0002			0.21	0.0016		0.0085	0.566	0.19	97.07		0.0004
BSC GDS	0.0267		0.0003			0.216	0.0012		0.0074	0.572	0.192	97.08		
MTR	0.028					0.21	0.0017			0.56	0.2			
Average	0.02747	0.005	0.00025			0.21275	0.0015		0.00795	0.566	0.194	97.075	0.00011	0.0004
Certificate	0.027	0.005	<0.005			0.21	0.002		0.008	0.57	0.19	[97.1]	<0.005	<0.005
8620G	Mn	Mo	N	Nb	Ni	O	P	Pb	S	Sb	Si	Sn	Ta	Ti
CSO NH			0.0082			0.0036			0.0185					
BSC SAES	0.8	0.214		0.0015	0.579		0.0097	0.0005	0.0201	0.0023	0.269	0.0093		0.0008
BSC GDS	0.808	0.206		0.0019	0.577		0.0097	0.0001	0.0203		0.265			0.001
MTR	0.8	0.2			0.59		0.008		0.02		0.26			
Average	0.80267	0.20667	0.0082	0.0017	0.582	0.0036	0.00913	0.0003	0.01973	0.0023	0.26467	0.0093		0.0009
Certificate	0.80	0.21	0.008	0.002	0.58	0.004	0.009	<0.005	0.02	0.002	0.26	0.009		<0.005
8620G	V	W	Zn	Zr										
CSO NH														
BSC SAES	0.0017	0.0027		0.0009										
BSC GDS	0.0017	0.0031		0.0006										
MTR														
Average	0.0017	0.0029		0.00075										
Certificate	0.002	0.003		<0.005										

Homogeneity: This Certified Reference Material (CRM) was tested for homogeneity using ASTM Standard Method E826 and found acceptable. It was also examined by spark atomic emission spectrometry and found to be compatible with the following Reference Materials — AR 8620; BS 61D, 2012, 2991, 8620A, 8620B, 8620C; TL 1001.

Validity statement: ISO Guide 31 states that the certification should contain an expiration date for all materials where instability has been demonstrated or is considered possible, after which the certified value is no longer guaranteed by the certifying body. The certification of BS 8620G is valid indefinitely. The certification is nullified if this CRM is damaged, contaminated, or otherwise modified.

Storage: This CRM must be stored in a cool, dry, non-corrosive environment.

Certified Area: The entire depth of the CRM may be used.

Caution: As with any bar material, avoid spark atomic emission spectrometric burns in the center of the CRM (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 used for production specimens. Avoid overheating the sample during surface preparation.

Caution: CRM contains significant insoluble soft metal inclusions. Surface smearing may occur. Spark atomic emission spectrometers may require extended preburns to compensate.

Safety Notice: A Safety Data Sheet (SDS) 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: _____ on February 08, 2023.

Beau R. Brammer
President