

## **Material Test Report**

Heat Code: YGM

An Ameri-Forge Group Company 13770 Industrial Rd., Houston, TX 77015

Line: 5

ISO 9001:2000 Certified

Sales: (713) 868-4421 Fax: (713) 455-8366

PLESA ANAHUAC Y CIAS

SA DE CV AV. VALLE DE LAS

ALAMEDAS 66-0 54940 TULTITLAN, EDO MEX PO: 3050 Sales Order: 60057

Item Desc: FLG 02.00 0600 BL RF A105 NRM COFFR

Supplier: CMC Supplier Heat: 256441

Spec: ASTM A 105/A 105M-03/ASME SA 105/SA 105M-04 Normalized

Element	(%wt)	Ladle	Product	EPCR	A CAS#	Elem	ent	(%wt)	Ladle	Product	EPCR	A CAS#
C Carl	bon	0.18				Ni	Nickel		0.08		✓	7440-02-0
Mn Man	ganese	0.88		✓	7439-96-5	Cr	Chromi	ım	0.19		✓	7440-47-3
P Pho	sphorous	0.019				Мо	Molybde	enum	0.020			
S Sul	phur	0.017				V	Vanadi	ım	0.002			
Si Sil	icon	0.18				Cb	Columb	ium	0.001			
Cu Cop	per	0.32		✓	7440-50-8	C.E.			0.39			

Mechanica	I	: Heat Treat					
		Norm. Temp. (F)	1675				
Test Lab	AFG	•					
Test Bar Size	SACRIFICIAL PIECE	Norm. (Hrs)	4.0				
HBW	156-156	Norm. Cooling Type	AIR				
Elg (%)	32.0	Norm. Location	AFG				
RA (%)	60.0						
Tensile Specimen Size (in)	0.246	Othe	r				
Tensile (ksi)	76.3	Country of Origin	USA (US)				
Yield (ksi)	67.1	EF	Y				
Gauge Length	1.00						
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No Weld repair performed. Chemical Analysis results shown are actual. Forgings are capable of passing hydrostatic test compatible with the appropriate rating. Elongation taken from a round specimen. All material supplied under this order is certified to be free of mercury contamination and no mercury bearing equipment was used in manufacturing, fabrication or testing. Yield strength was determined using the 0.2% offset method.

EPCRA Supplier Notification: This product may contain one or more toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act (Title III of the Superfund Amendments and Reauthorization Act of 1986) and 40 C.F.R. Part 372. Potentially reportable chemicals are indicated with a checkmark in the "EPCRA" column and a Chemical Abstract Services (CAS) registry number is provided for each such chemical in addition to the percent by weight of the chemical present in this product. It is your responsibility alone to determine whether your facility is required to submit a Toxic Release Inventory Report under EPCRA Section 313.

Certification No.:

119671

Certification Date:

6/14/2007

Kevin Papich - Tech. Svcs. Manager

This report is issued in compliance with the requirements of EN10204 3.1 / ISO 10474 3.1.b