## **Material Test Report**

Heat Code: GGC

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

ISO 9001:2000 Certified

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

Line: 16

PO: 5101 Sales Order: 66536 PLESA ANAHUAC Y CIAS Item Code: 0303200100-0020F SA DE CV AV. VALLE DE LAS Item Desc: FLG 02.00 0300 BL RF ALAMEDAS 66-0 Supplier: CMC 54940 TULTITLAN, EDO MEX

Qty Shipped: 13 A105 NHT COFFR

Supplier Heat: 3006180

Spec: ASME SA-105/SA-105M 2004 Section II/ASTM A105/A105M-03

Elem	ent (%wt)	Ladle	Product	EPCR	A CAS#	Elemen	t (%wt)	Ladie	Product	EPCRA	CAS#
C	Carbon	0.19				Cr Ch	romium	0.08		V 7	440-47-3
Mn	Manganese	0.89		✓	7439-96-5	Mo Mo	lybdenum	0.016			
P	Phosphorous	0.010				V Va	nadium	0.003			
S	Sulphur	0.013				C.E.		0.375			
Si	Silicon	0.18				CuNiCr	Mo	0.36			
Cu	Copper	0.20		✓	7440-50-8	CrMo		0.10			
Ni	Nickel	0.06		✓	7440-02-0						
								7			
						1					
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Mechanica	ı	Other					
Test Lab	AFG	Country of Origin	USA (US)				
lest Bar Size	SACRIFICIAL PIECE	EF	Y				
нв₩	149-149						
Elg (%)	31.0						
RA (%)	65.0						
Tensile Specimen Size (in)	0.245						
Pensile (ksi)	77.0						
Yield (ksi)	45.3						
Sauge Length	1.00						
,							

Product compliant with NACE MR0175 / ISO 15156, latest edition and dimensions to ANSI B16.5 Product compliant with and meets all requirements of ASTM A105/ASME SA105, latest edition.

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.:

152561

Certification Date:

10/23/2008

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

Nicholas Tepovich - Metallurgic Lab Manager

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