Material Test Report

Heat Code: YHM

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

ISO 9001:2000 Certified

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

PLESA ANAHUAC Y CIAS SA DE CV AV. VALLE DE LAS PO: 4970 Item Code: 0153800100-0020F

Sales Order: 66234 Qty Shipped: 4

Line: 8

ALAMEDAS 66-0

54940 TULTITLAN, EDO MEX

Item Desc: FLG 08.00 0150 BL RF A105

NHT COFFR Supplier Heat: 256922

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

Supplier: CMC

Elem	ent (%	wt)	Ladie	Product	EPCRA	CAS#	Element (%wt)	Ladle	Product	EPCRA	CAS#
c	Carbon		0.21				Cr Chromium		0.10		V 76	440-47-3
Mn	Manganese		0.89		✓ ·	7439-96-5	Mo Molybdent	ım	0.021			
Р	Phosphorou	18	0.012				V Vanadium		0.002			
S	Sulphur		0.022				Cb Columbius	1	0.001			
Si	Silicon		0.20	•			C.E.		0.410			
Cu	Copper		0.31		· ·	7440-50-8	CuNi CrMo		0.52			
Ni	Nickel		0.09		✓ .	7440-02-0	CrMo		0.12			
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Mechanics	1 .	Other						
Test Lab	AFG	Country of Origin	USA (US)					
Test Bar Size	SACRIFICIAL PIECE	EF	Y					
нви	159-159							
Elg (%)	38.0							
RA (%)	62.0							
Tensile Specimen Size (in)	0.250							
Tensile (ksi)	90.1							
Yield (ksi)	45.4							
Gauge Length	1.00							
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Product compliant with NACE MRO175, latest edition. Product compliant with and meets all requirements of ASTM A105/ASME SA105, latest edition.

Chemical Analysis results shown are actual. Forgings are capable of passing No Weld repair performed. 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 1988) 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.:

Certification Date:

8/20/2008

This report is issued in compliance with the requirements of EN10204 3.1 / ISO 10474 3 1.b

Puneet Saggar - Plant Metallurgist