Material Test Report

Heat Code: YWS

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 ALAMEDAS 66-0

54940 TULTITLAN, EDO MEX

Sales Order: 63343 Line: 14 PO: 4077 Qty Shipped: 10 Item Code: 0152918100-0020F Item Desc: FLG 18.00 0150 SO RF NHT COFFR A105

Supplier: CMC

Supplier Heat: J73859

Spec: ASTM A 105/A 105M-03/ASME SA 105/SA 105M-04, Melt Practice EF

	ent (%wt)	Ladle	Product	EPCRA	CAS#	Element	(%wt)	Ladle	Product	EPCRA	CAS#
С	Carbon	0.20				Cr Chrom	ium	0.11		✓ 7	40-47-3
Мл	Manganese	0.83		✓ 7	439-96-5	Mo Molybo	denum	0.024			
P	Phosphorous	0.007				V Vanad:	ium	0.003			
S	Sulphur	0.026				Cb/ Columb	bium	0.001			
Si	Silicon	0.23				C.E.		0.388			
Cu	Copper	0.25		1 7	440-50-8	CunicrMo		0.46			
Ni	Nickel	0.08		* 🗸 7	440-02-0	CrMo		0.13			

Mechanica		Other				
est Lab	AFG	Country of Origin	USA (US)			
est Bar Size	SACRIFICIAL PIECE	EF	Y			
BW	156-156					
ilg (%)	32.0					
A (%)	50.0		•			
ensile Specimen Size (in)	0.497					
ensile (ksi)	77.6					
ield (ksi)	44.7					
auge Length	2,00					
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Product compliant with DIMS. to ANSI B16.5

Product compliant with NACE MR0175, latest edition.

Product compliant with and meets all requirements of ASTM A105/ASME SA105-05.

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 1985) 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.:

13566B

Certification Date:

2/22/2008

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

Puneet Saggar - Plant Metallurgist