

Material Test Report

Heat Code: AMY

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

PO: 4871 Sales Order: 65826 Line: 11 Item Code: 0151800101-0020F Qty Shipped: 75 Item Desc: FLG 08.00 0150 WN RF STD A105 NHT COFFR

Supplier: CMC Supplier Heat: 3001648

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

Elen	nent (%wt)	Ladie	Product	EPCR/	A CAS#	Element	(%wt)	Ladle	Product	EPCRA	CAS#
C	Carbon	0.19				Cr Chrom	ium	0.11			440-47-3
Mn	Manganese	0.88		1	7439-96-5	Mo Molybo	denum	0.028			***
P	Phosphorous	0.008				V Vanada	un	0.001			
S	Sulphur	0.023				Cb Columb	Dium	0.002			
Si	Silicon	0.18				C.E.		0.386			
Cu	Copper	0.24		1	7440-50-8	CuNiCrMo		0.47			
Ni	Nickel	0.09		1	7440-02-0	CrMo		0.14			

Mechanic	al .	Other				
Test Lab	AFG	Country of Origin	USA (US)			
Test Bar Size	SACRIFICIAL PIECE		100,			
нвы	143-143					
Elg (%)	34.0					
RA (%)	63.0					
Tensile Specimen Size (in)	0.245					
Tensile (ksi)	76.1					
Yield (ksi)	42.0					
Gauge Length	1.00					

Product compliant with NACE MRO175, latest edition.

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 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: 7/19/2008

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

Puneet Saggar - Plant Metallurgist