

Material Test Report

Heat Code: YHM

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

Line: 15

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: 3815 Sales Order: 62636

Item Desc: FLG 03.00 0150 BL RF A105 NHT COFFR

Supplier: CMC Supplier Heat: 256922

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

Elen	nent (%wt)	Ladle	Product	EPCR4	CAS#	Element	(%wt)	Ladle	Product	EPCRA	CAS#
С	Carbon	0.21				Cr Chromi	um	0.10		√ 7	440-47-3
Mn	Manganese	0.89		✓ .	7439-96-5	Mo Molybo	denum	0.021			
P	Phosphorous	0.012				V Vanadi	Lum	0.002			
s	Sulphur	0.022				Cb Columb	oium	0.001			
Si	Silicon	0.20				C.E.		0.410			
Cu	Copper	0.31		✓ '	7440-50-8	CuNiCrMo		0.52			
Ni	Nickel	0.09		• 🗸	7440-02-0	CrMo		0.12			
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Mechanic	al	Other				
Test Lab	AFG	Country of Origin	USA (US)			
Test Bar Size	SACRIFICIAL PIECE	EF	Y			
HBW	159-159					
Elg (%)	38.0					
RA (%)	62.0					
Tensile Specimen Size (in)	0.250					
Tensile (ksi)	80.1					
Yield (ksi)	45.4					
Gauge Length	1.00					
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Material on this report is certified to NACE MR-01-75 and 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 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.:

131282

Certification Date:

12/11/2007

Kevin Papich - Tech. Svcs. Manager

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