Material Test Report

Heat Code: AAM

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: 4161 Sales Order: 63578 Item Code: 0151800102-0020F

Qty Shipped: 55

Item Desc: FLG 08.00 0150 WN RF XH A105 NHT COFFR

Supplier Heat: 3000369 Supplier: CMC

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

C Carbon 0.19 Cr Chromium 0.12 Mn Manganese 0.91 ✓ 7439-96-5 Mo Molybdenum 0.040	✓ 7440-47-3
P Phosphorous 0.008 V Vanadium 0.001	
S Sulphur 0.028 Cb Columbium 0.001	
Si Silicon 0.19 C.E. 0.398	
Cu Copper 0.24 √ 7440-50-8 CuNiCrMo 0.52	
Ni Nickel 0.12 * 7440-02-0 CrMo 0.16	

Mechanical		Other		
Test Lab	ACCU TEST	Country of Origin USA (US)		
Test Bar Size	SACRIFICIAL PIECE	EF		
HBW	167-167			
Elg (%)	24.5			
RA (%)	45.0			
Tensile Specimen Size (in)	0.499			
Tensile (ksi)	76.5			
Yield (ksi)	45.1			
Gauge Length	2.00			
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PRODUCT COMPLIANT WITH DIMS. TO ANSI B16.5

Product compliant with NACE MRO175, 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 IIII of the Superfund Amendments and Resulthorization 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.:

134950

Certification Date:

2/13/2008

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

Puneet Saggar - Plant Metallurgist