

Material Test Report

Heat Code: BAC

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

Item Code: 0151600101-0020F

Sales Order: 65670 Qty Shipped: 50

Item Desc: FLG 06.00 0150 WN RF STD A105

54940 TULTITLAN, EDO MEX

PO: 4801

NHT COFFR

Supplier: CMC

Supplier Heat: 3003588

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

Element	(%wt)	Ladie	Product	EPCR	A CAS#	Element	(%wt)	Ladle	Product	EPCRA	CAS#
C Carbon Mn Mangane: P Phosphor S Sulphur Si Silicon Cu Copper Ni Nickel		0.21 0.90 0.015 0.022 0.21 0.29 0.08			7440-50-8 7440-02-0	Cr Chromi Mo Molybo V Vanadi Cb Columb C.E. CuNiCrMo CrMo	um lenum um	0.11 0.021 0.002 0.003 0.411 0.50 0.13	rioduct		440-47-3

Mechanical		Other				
Test Lab Test Bar Size HBW Elg (%) RA (%) Tensile Specimen Size (in) Tensile (ksi) Yield (ksi)	AFG SACRIFICIAL PIECE 163-163 34.0 59.0 0.247	Country of Origin	USA (US)			
Gauge Length	45.2 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 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.:

Certification Date:

7/9/2008

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

Puneet Saggar - Plant Metallurgist