## **Material Test Report**

Heat Code: AGW

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

Line: 1

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

Sales Order: 65826 Qty Shipped: 49 Item Code: 0153300100-0020F

Item Desc: FLG 03.00 0150 BL RF

NHT COFFR A105

54940 TULTITLAN, EDO MEX

Supplier: CMC

PO: 4871

Supplier Heat: 3000487

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

Element	(%wt)	Ladle	Product	EPCRA	CAS#	Element (%	wt) Ladle	Product	EPCRA	CAS#
C Carbo Mn Manga P Phosp	n nese norous	0.18 0.93 0.016 0.022		<b>√</b> 7	439-96-5	Cr Chromium  Mo Molybdenum  V Vanadium  Cb Columbium	0.19 0.043 0.001 0.002		/ 1	440-47-3
S Sulph S1 Silic	on	0.17		/ 7	440-50-8	C.E. CuN1CrMo	0.409			
Ni Nicke		0.12			440-02-0	CrMo	0.23			

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Mechanical		Other				
rest Lab	AFG	Country of Origin	USA (US)			
Test Bar Size	SACRIFICIAL PIECE	EF	Y			
нви	170-170					
Elg (%)	28.0					
RA (%)	63.0					
Tensile Specimen Size (in)	0.245					
Tensile (ksi)	80.6					
Yield (ks1)	47.5					
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.

Chemical Analysis results shown are actual. Forgings are capable of passing 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-lo-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.:

146166

Certification Date: 7/18/2008

Puneet Saggar - Plant Metallurgist

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