

Material Test Report

Heat Code: GLX

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

Item Code: 0151300101-0020F

Sales Order: 67635 Line: 11

ALAMEDAS 66-0

Qty Shipped: 90

Item Desc: FLG 03.00 0150 WN RF STD A105

NHT COFFR

54940 TULTITLAN, EDO MEX

Supplier: CMC

PO: 5526

Supplier Heat: 3006226

Spec: ASTM A 105/A 105M-(05)/ASME SA 105/SA 105M-(08a) Section II Part A

Elen	nent (%wt)	Ladle	Product	EPCRA CAS#	Element (%wt)	Ladle	Product	EPCRA CAS#
С	Carbon	0.18			Cr Chromium	0.07		√ 7440-47-3
Mn	Manganese	0.94		√ 7439-96-5	Mo Molybdenum	0.020		
P	Phosphorous	0.007			V Vanadium	0.002		
S	Sulphur	0.024			Cb Columbium	0.001		
Si	Silicon	0.18			C.E.	0.375		
Cu	Copper	0.22		√ 7440-50-8	CuNiCrMo	0.39		
Ni	Nickel	0.08		√ 7440-02-0	:CrMo	0.09		

Mechanical		Other					
Test Lab	AFG	EF		Y			
Test Bar Size	SACRIFICIAL PIECE	:					
HBW	146-146						
Elg (%)	33.0						
RA (%)	60.0						
Tensile Specimen Size (in)	0.248						
Tensile (ksi)	73.7						
Yield (ksi)	41.8						
Gauge Length	1.00						
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Product compliant with NACE MR0175 / ISO 15156, latest edition and dimensions to ANSI B16.5 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.:

156069

Certification Date:

12/17/2008

Nicholas Tepovich - Metallurgic Lab Manager

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