

Material Test Report

Heat Code: YGJ

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 PO: 3050 Item Code: 0151400101-0020F

Sales Order: 60057 Line: 12

ALAMEDAS 66-0

Qty Shipped: 50

Item Desc: FLG 04.00 0150 WN RF STD A105

NHT COFFR

54940 TULTITLAN, EDO MEX

Supplier: CMC

Supplier Heat: 256444

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

Element	(%wt)	Ladle	Product	EPCR	A CAS#	Eleme	ent (%wt)	Ladle	Product	EPCRA	CAS#
C Car	bon	0.19				Cr	Chromium	0.21		√ 7	440-47-3
Mn Man	ganese	0.86		✓	7439-96-5	Мо	Molybdenum	0.022			
P Pho	sphorous	0.020				V	Vanadium	0.002			
S Sul	phur	0.018				Cb	Columbium	0.001			
Si sil	icon	0.21				C.E.		0.408			
Cu Cop	per	0.33		✓	7440-50-8	CuNiC	CrMo	0.65			
Ni Nic	kel	0.09		✓	7440-02-0	CrMo		0.23			
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Mechanical		Other					
Test Lab	AFG	Country of Origin		USA (US)			
Test Bar Size	SACRIFICIAL PIECE	EF		Y			
HBW	163-167						
Elg (%)	31.0						
RA (%)	65.0						
Tensile Specimen Size (in)	0.251						
Tensile (ksi)	80.6						
Yield (ksi)	45.8						
Gauge Length	1.00						

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 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.:

119647

Certification Date:

6/14/2007

Kevin Papich - Tech. Svcs. Manager

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