

Material Test Report

Heat Code: AMH

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

Line: 7

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

PO: 4540 Sales Order: 64906 Item Code: 0601300102-0021F

Qty Shipped: 10

Item Desc: FLG 03.00 0600 WN RF XH A105

NRM COFFR Supplier Heat: 3000483

54940 TULTITLAN, EDO MEX

Supplier: CMC Spec: ASTM A 105/A 105M-03/ASME SA 105/SA 105M-04 Normalized

Element	(%wt)	Ladle	Product	EPCR	A CAS#	Elen	nent	(%wt)	Ladle	Product	EPCR	A CAS#
C Carbo	on	0.19				Ni	Nickel		0.10		1	7440-02-0
Mn Manga	inese	0.89		1	7439-96-5	Cr	Chromiu	m	0.11		1	7440-47-3
P Phosp	phorous	0.008				Mo	Mol ybde	num	0.035			
S Sulph	nur	0.028				v	Vanadiu	m	0.001			
Si Silic	con	0.21				Cb	Columbi	um	0.002			
Cu Coppe	r	0.27		1	7440-50-8	C.E.			0.39	,		

	Mechanical		Heat Treat						
Test Lab		AFG	Norm. Temp. (F)		1675				
Test Bar Size		SACRIFICIAL PIECE	Norm. (Hrs)		4.0				
HBW		149-149	Norm. Cooling Type		AIR				
Elg (%)		35.0	Norm. Location		AFG				
RA (%)		61.0							
Tensile Specimen Size	(in)	0.247		Other					
Tensile (ksi)		76.0	Country of Origin		USA (US)				
Yield (ksi)		45.4	EF		Y				
Gauge Length		1.00							
	4.								

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 checkmerk 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.:

142806

Certification Date:

5/30/2008

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

Puneet Saggar - Plant Metallurgist