Material Test Report

Heat Code: CSV

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

54940 TULTITLAN, EDO MEX

Sales Order: 67635 Line: 19 Item Code: 0601400101-0021F Qty Shipped: 25

Item Desc: FLG 04.00 0600 WN RF STD A105 NRM COFFR Supplier: CMC Supplier Heat: 3004710

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

PO: 5526

Elen	nent (%wt)	Ladie	Product	EPCR/	A CAS#	Eleme	nt (%wt)	Ladle	Product	EPCR	A CAS#
С	Carbon	0.21	<u> </u>			Ni N	lickel	0.09		1	7440-02-0
Mn	Manganese	0.90		✓	7439-96-5	Cr c	Chromium	0.11		1	7440-47-3
P	Phosphorous	0.009				Mo M	iolybdenum	0.031			
s	Sulphur	0.013				. v	anadium	0.001			
Si	Silicon	0.21				Cb c	Columbium	0.003			
Cu	Copper	0.23		1	7440-50-8	C.E.		0.41			

Mechanic	ai	Look Trook						
		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 (%)	32.0	Norm. Location		AFG				
RA (%)	52.0							
Tensile Specimen Size (in)	0.247	:	Other					
Tensile (ksi)	78.9	EF		Y				
Yield (ksi)	47.6	•		_				
Gauge Length	1.00							
		<u> </u>						
		:						

Product compliant with NACE MR0175, latest edition and dimensions to ANSI B16.5 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-6-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 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.:

155535

Certification Date:

12/10/2008

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

Vielalas Legare

Nicholas Tepovich - Metallurgic Lab Manager