

## **Material Test Report**

Heat Code: GTG

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

PO: 5810 Sales Order: 68353 Line: 11 Item Code: 0601800102-0021F Qty Shipped: 4

Item Desc: FLG 08.00 0600 WN RF XH

Supplier Heat: 3006402 54940 TULTITLAN, EDO, MEX Supplier: CMC

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

Element (%wt)	Ladle Product	t epcra cas#	Element (%wt)	Ladie Product	EPCRA CAS#
C Carbon	0,20		Ni Nickel	0.08	<b>√</b> 7440-02-0
Mn Manganese	0.89	<b>√</b> 7439-96-5	Cr Chromium	0.06	✓ 7440-47-3
P Phosphorous	0.005		Mo Molybdenum	0.02	
S Sulphur	0.020		V Vanadíum	0.003	
Si Silicon	0.19		Cb Columbium	0.003	
Cu Copper	0.21	<b>√</b> 7440-50-8	C.E.	0.38467	
	Mechanical Testing			Heat Treat	

Markan	cal Testing	; Hea	Treat
Test Lab Test Bar Size HBW Elg (%) RA (%) Tensile Specimen Size (in)	AFG SACRIFICIAL PIECE 143 - 143 36 58 .496	Norm. Temp. (F) Norm. (Hrs) Norm. Cooling Type Norm. Location	1675 4 AIR AFG
Tensile (ksi) Yield (ksi) Gauge Length	74 44 2	MILL MHC VD EF	СМС 3006402 У

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-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.:

**新疆的**中的第三人称

161855

Certification Date: 2/9/2009

Nicholas Tepovich - Metallurgic Lab Manager