

## **Material Test Report**

Heat Code: GXZ

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

Line: 4

Normalized

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 | Item Desc: FLG 08.00 0600 BL RF

PO: 6277

Spec: ASTM A105/A105M-(05)/ASME SA 105/SA 105M-(08a) Section II Part A -

54940 TULTITLAN, EDO, MEX

Supplier: CMC Supplier Heat: 3008026

Sales Order: 69370

Elen	nent (%wt)	Ladle	Product	EPCRA CAS#	Element (%wt)	Ladle	Product	EPCRA CAS#
С	Carbon	0.22			Ni Nickel	0.08		√ 7440-02-0
Mn	Manganese	1.05		✓ 7439-96-5	Cr Chromium	0.14		√ 7440-47-3
P	Phosphorous	0.012			Mo Molybdenum	0.060		
s	Sulphur	0.024			. V Vanadium	0.002		
Si	Silicon	0.19			Cb Columbium	0.005		
Cu	Copper	0.18		√ 7440-50-8	C.E.	0.45		
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Mechanical Testin	g	<b>:</b>	Heat Treat	`
Test Lab	AFG	Norm. Temp. (F)		1675
Test Bar Size	TEST PIECE	Norm. (Hrs)		4
HBW	163 - 163	Norm. Cooling Type		AIR
Elg (%)	36	Norm. Location		AFG
RA (%)	60			
Tensile Specimen Size (in)	.496	:	Other	
Tensile (ksi)	80.7	MILL		CMC-TEXAS
Yield (ksi)	49.9	мнс		3008026
Gauge Length	2	VD		Y
		EF		Y
		:		
		:		
		1		
		:		

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.:

165557

Certification Date:

4/24/2009

Nicholas Tepovich - Metallurgic Lab Manager