## **Material Test Report**

Heat Code: GNL

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: 5647 Item Code: 0151600102-0020F

Sales Order: 68015 Line: 21 Qty Shipped: 25

ALAMEDAS 66-0

Item Desc: FLG 06.00 0150 WN RF XH

Supplier Heat: 3006395

54940 TULTITLAN, EDO, MEX

Supplier: CMC

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

Elem	ent (%wt)	Ladle	Product	EPCR	A CAS#	Elen	ent	(%wt)	Ladle	Product	EPCRA	CAS#
c	Carbon	0.19	***************************************			Cr	Chrom	i (Atti	0.09	- Assimica min annua minda	✓ 7	440-47-3
Mn	Manganese	0.86		1	7439-96-5	Mo	Molybe	denum	0.04			
P	Phosphorous	0.006				V	Vanad	ium	0.004			
s	Sulphur	0.017				Cb	Colum	oium	0.003			
Sì	Silicon	0.19				C.E.	ė		0.3778			
Cu	Copper	0.20		4	7440-50-8	CuN	CrMo		0.40			
Ni	Nickel	0.08		1	7440-02-0	: CrMc	>		0.12			

Section of the sectio		*		
Mechanical To	esting		Other	
Test Lab	AFG	MILL		CMC
Test Bar Size	SACRIFICIAL PIECE	: MHC		3006395
HBW	149 - 149	EF		Y
Elg (%)	35			
RA (%)	65	*		
Tensile Specimen Size (in)	.497			
Tensile (ksi)	70.1	\$ \$		
Yield (ksi)	40.8	N.		
Gauge Length	2			
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Product compliant with NACE MR0175 / ISO 15156, latest edition and dimensions to ANSI B16.5 Product compliant with and meets all requirements of ASTM Al05/ASME SAl05, latest edition. 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 Nolification: 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.:

160429

Certification Date:

1/16/2009

Nicholas Tepovich - Metallurgic Lab Manager

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