

## **Material Test Report**

Heat Code: JLP

An Ameri-Forge Group Company 13770 Industrial Rd. Houston, TX 77015 Sales: (713) 868-4421 Fax: (713) 455-8366

ISO 9001:2008 Certified

PLESA ANAHUAC Y CIAS PO: 10734 Sales Order: 97054 Line: 14 SA DE CV AV. VALLE DE LAS Item Code: 0151300101-0020F Qty Shipped: 10 ALAMEDAS 66-0 Item Desc: FLG 03.00 0150 WN RF STD

54940 TULTITLAN, EDO, MEX Supplier: CMC Supplier Heat: 3022382 Spec: ASTM A105/A105M-(10)/ASME SA 105/SA 105M-(08a) Section II Part A

Elen	nent (%wt)	Ladle	Product	EPÇRA	CAS#	Element	(%wt)	Ladle	Product	EPCRA CAS
С	Carbon	0.20				Cr Chrom	ium	0.08		√ 7440-47
Mn	Manganese	1.05		✓ 7	439-96-5	Mo Molybo	denum	0.02		
P	Phosphorous	0.009				V Vanad	ium	0.002		
s	Sulphur	0.018				Cb Colum	bium	0.001		***
Si	Silicon	0.24				C.E.		0.42		
Cu	Copper	0.22		√ 7	440-50-8	CuNiCrMo		0.403		
Ni	Nickel	0.08		✓ 7	440-02-0	CrMo		0.103~		

Mechanical T	esting	:		
Test Lab	AFG	MILL		CMC-TEXAS
Test Bar Size	SACRIFICIAL PIECE	мнс		3022382
нви	163 - 163	EF		Y
Elg (%)	30.0			
RA (%)	62.0			
Tensile Specimen Size (in)	0.250			
Tensile (ksi)	81.2			
Yield (ksi)	46.5			
Gauge Length	1			
		•		
		:		

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. No weld repair performed on this product.

Product compliant with NACE MR0175, latest edition and dimensions to ASME B16.5

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.:

213956

Certification Date:

7/26/2011

Nicholas Tepovich - Metallurgic Lab Manager

Vieladas Lepare