## **Material Test Report**

Heat Code: JOX

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

ISO 9001:2008 Certified

Sales: (713) 868-4421 Fax: (713) 455-8366

PLESA ANAHUAC Y CIAS SA DE CV AV. VALLE DE LAS PO: 10589 Item Code: 0151400102-0020F

Sales Order: 95732 Line: 15 Qty Shipped: 50

ALAMEDAS 66-0

Item Desc: FLG 04.00 0150 WN RF XH

54940 TULTITLAN, EDO, MEX

Supplier: CMC

Supplier Heat: 3023468

Spec: ASTM A105/A105M-(10)/ASME SA 105/SA 105M-(08a) Section II Part A

Elen	nent (%wt)	Ladie	Product	EPCRA	CAS#	Element	(%wt)	Ladle	Product	EPCRA	CAS#
c	Carbon	0.20	<del></del>		,	Cr Chromi	um	0.10		1	7440-47-3
Mn	Manganese	1.05		1	1439-96-5	Mo Molybo	tenum	0.02			
P	Phosphorous	0.009				V Vanadi	um	0.005			
s	Sulphur	0.016				Cb Columb	nium	0.001	-		
Si	Silicon	0.24				C.E.		0.43			
Cu	Copper	0.28		✓ 7	7440-50-8	CuNiCrMo		0.495			
Ni	Nickel	0.09		✓ 7	7440-02-0	CrMo		0.125			
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Mechanical To	esting	Other					
Test Lab	AFG	MILL		CMC-TEXAS			
Test Bar Size	Sacrificial Piece	MHC		3023468			
HBW	170 - 170						
Elg (%)	28.0						
RA (%)	58.0						
Tensile Specimen Size (in)	.249						
Tensile (ksi)	81.5						
Yield (ksi)	61.3						
Gauge Length	1						
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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.:

211578

Certification Date:

6/24/2011

Nicholas Tepovich - Metallurgic Lab Manager

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