

## **Material Test Report**

Heat Code: 2804516

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

Item Code: 0153800100-0020F

Line: 15 Sales Order: 92873

ALAMEDAS 66-0

Item Desc: FLG 08.00 0150 BL RF

Qty Shipped: 30

54940 TULTITLAN, EDO, MEX

Supplier: MF RINGS

Supplier Heat: 2804516

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

PO: 10179

Elen	nent (%wt)	Ladle	Product	EPCR	A CAS#	Element	(%wt)	Ladie	Product	EPCRA	CAS#
С	Carbon	0.22				Cr Chrom	ium	0.01		<b>√</b> 7	440-47-3
Mn	Manganese	0.93		✓	7439-96-5	Mo Molyb	denum	0.004			
P	Phosphorous	0.016				V Vanad	lum	0.008			
S	Sulphur	0.009				Cb Colum	bium	0.005			
Si	Silicon	0.20				C.E.		0.380			
Cu	Copper	0.005		✓	7440-50-8	CunicrMo		0.027			
Ni	Nickel	0.01		✓	7440-02-0	CrMo		0.010			
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Mechanical T	esting	Other					
Test Lab	MF RINGS	VD	Y				
Test Bar Size	SACRIFICIAL PIECE	EF	Y				
HBW	156 - 156	,					
Elg (%)	29.6						
RA (%)	59.8		<i>i</i>				
Tensile Specimen Şize (in)	0.498						
Tensile (ksi)	75.3	•					
Yield (ksi)	46.0						
Gauge Length	2						
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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 and meets all requirements of ASTM A105 and with dimensions to ASME B16.5 Product compliant with NACE MR0175, latest edition

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.:

203112

Certification Date:

3/16/2011

Nicholas Tepovich - Metallurgic Lab Manager