

## **Material Test Report**

Heat Code: A-3284

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 ALAMEDAS 66-0

54940 TULTITLAN, EDO, MEX

 PO:
 6251
 Sales Order:
 69338
 Line:
 1

 Item Code:
 0153910100-0020F
 Qty Shipped:
 10

Item Desc: FLG 10.00 0150 BL RF

Supplier: MF RINGS Supplier Heat: A-3284

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

Elen	nent (%wt	) Ladle	Product	EPCR	A CAS#	Element	(%wt)	Ladle	Product	EPCRA	CAS#
С	Carbon	0.21				Cr Chr	omium	0.02		✓ 74	140-47-3
Mn	Manganese	0.89		✓	7439-96-5	Mo Mol	ybdenum	0.04			
P	Phosphorous	0.029				. V Van	adium	0.006			
S	Sulphur	0.012				:Cb Col	umbium	0.005			
Si	Silicon	0.27				C.E.		0.36			
Cu	Copper	0.03		✓	7440-50-8	CuNiCrM	io	0.12			
Ni	Nickel	0.03		✓	7440-02-0	CrMo		0.06			
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						;					

Mechanical To	esting	Other					
Test Lab	MF RINGS	VD	Y				
Test Bar Size	SACRIFICIAL PIECE	EF	Y				
HBW	156 - 156	•					
Elg (%)	29.6						
RA (%)	62.0						
Tensile Specimen Size (in)	0.498						
Tensile (ksi)	76.1	•					
Yield (ksi)	48.6						
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 A105/ASME SA105, 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 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.:

165564

Certification Date:

4/24/2009

Nicholas Tepovich - Metallurgic Lab Manager

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