

PLESA ANAHUAC Y CIAS

SA DE CV AV. VALLE DE LAS

Material Test Report

Heat Code: 707039

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

Qty Shipped: 10

ISO 9001:2000 Certified

Sales Order: 71161 PO: 6947 Line: 18 Item Code: 0153400100-0020F

ALAMEDAS 66-0 Item Desc: FLG 04.00 0150 BL RF

54940 TULTITLAN, EDO, MEX Supplier: MF RINGS Supplier Heat: 707039

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

Elen	ent (%wt)	Ladle	Product	EPCRA	CAS#	Elen	nent	(%wt)	Ladie	Product	EPCRA	CAS#
С	Carbon	0.21				Cr	Chromiu	m	0.03		√ 7	440-47-3
Mn.	Manganese	0.86		✓ ·	7439-96-5	Мо	Molybde	num	0.03			
P	Phosphorous	0.026				v	Vanadiu	on .	800.0			
\$	Sulphur	0.025				Cb	Columbi	um	0.005			
Si	Silicon	0.16				C.E			0.3364			
Cu	Copper	0.03		✓ :	7440-50-8	Cun	iCrMo		0.1			
Ni	Nickel	0.01		1	7440-02-0	CrM	ם		0.06			
						;						
						:						
						:						

Mechanical T	esting	•	•
Test Lab	MF RINGS		
Test Bar Size	SACRIFICIAL PIECE		
HBW	153 - 153		
Elg (%)	29.8		
RA (%)	59.3		
Tensile Specimen Size (in)	0.496		
Tensile (ksi)	75.5	:	
Yield (ksi)	45.4		
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.:

170529

Certification Date:

9/1/2009

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

Nicholas Tepovich - Metallurgic Lab Manager