



Material Test Report

Heat Code: 2803903

ISO 9001:2000 Certified

An Ameri-Forge Group Company
 13770 Industrial Rd. Houston, TX 77015
 Sales: (713) 868-4421 Fax: (713) 455-8386

PLESA ANAHUAC Y CIAS SA DE CV AV. VALLE DE LAS ALAMEDAS 66-0 54940 TULTITLAN, EDO, MEX	PO: 7589	Sales Order: 72923	Line: 4
	Item Code: 0151918102-0020F	Qty Shipped: 2	
	Item Desc: FLG 18.00 0150 WN RF XH		
	Supplier: MF RINGS	Supplier Heat: 2803903	
Spec: ASTM A105/A105M-(05)/ASME SA 105/SA 105M-(08a) Section II Part A			

Element	(%wt)	Ladle	Product	EPCRA	CAS#	Element	(%wt)	Ladle	Product	EPCRA	CAS#
C	Carbon	0.21				Cr	Chromium	0.01		✓	7440-47-3
Mn	Manganese	0.91		✓	7439-96-5	Mo	Molybdenum	0.003			
P	Phosphorous	0.015				V	Vanadium	0.002			
S	Sulphur	0.012				Cb	Columbium	0.01			
Si	Silicon	0.22				C.E.		0.38			
Cu	Copper	0.005		✓	7440-50-8	CuNiCrMo		0.24			
Ni	Nickel	0.01		✓	7440-02-0	CrMo		0.01			

Mechanical Testing				Other	
Test Lab		MF RINGS		VD	Y
Test Bar Size		SACRIFICIAL PIECE		EF	Y
HBW		156 ~ 156			
Elg (%)		29.6			
RA (%)		61			
Tensile Specimen Size (in)		0.498			
Tensile (ksi)		74.5			
Yield (ksi)		47.0			
Gauge Length		2			

PLEASA ANAHUAC Y CIAS. S.A. DE C.V.

CONTROL DE CALIDAD

FECHA 29 Feb 2010

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SIRMA Enrique Ruiz

Product compliant with NACE MR0175, latest edition and dimensions to ASME 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.: 176979
 Certification Date: 1/22/2010

Nicholas Tepovich

 Nicholas Tepovich - Metallurgic Lab Manager