



Material Test Report

Heat Code: A-3394

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 ALAMEDAS 66-0 54940 TULTITLAN, EDO, MEX	PO: 8671	Sales Order: 76145	Line: 4
	Item Code: 0303918100-CG20F		Qty Shipped: 5
	Item Desc: FLG 18.00 0300 BL RF		
	Supplier: MF RINGS		Supplier Heat: A-3394
Spec: ASTM A105/A105M-(10)/ASME SA 105/SA 105M-(08a) Section II Part A			

Element	(%wt)	Ladle	Product	EPCRA	CAS#	Element	(%wt)	Ladle	Product	EPCRA	CAS#
C	Carbon	0.20				Cr	Chromium	0.02		✓	7440-47-3
Mn	Manganese	0.88		✓	7439-96-5	Mo	Molybdenum	0.02			
P	Phosphorous	0.024				V	Vanadium	0.008			
S	Sulphur	0.009				Cb	Columbium	0.005			
Si	Silicon	0.22				C.E.		0.38			
Cu	Copper	0.01		✓	7440-50-8	CuNiCrMo		0.24			
Ni	Nickel	0.02		✓	7440-02-0	CrMo		0.013			

Mechanical Testing

Test Lab	MF RINGS
Test Bar Size	SACRIFICIAL PIECE
HBW	153 - 153
Elg (%)	29.9
RA (%)	59.5
Tensile Specimen Size (in)	0.498
Tensile (ksi)	74.7
Yield (ksi)	46.5
Gauge Length	2

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. No weld repair performed on this product.

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.: 190439
 Certification Date: 9/20/2010

Nicholas Tepovich - Metallurgic Lab Manager