



# Material Test Report

Heat Code: JPM

ISO 9001:2008 Certified

An Ameri-Forge Group Company  
 13770 Industrial Rd. Houston, TX 77015  
 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: 10734	Sales Order: 97054	Line: 1
	Item Code: 0153910100-0020F		Qty Shipped: 10
	Item Desc: FLG 10.00 0150 BL RF		
	Supplier: CMC		Supplier Heat: 3023426

Element	(%wt)	Ladle	Product	EPCRA	CAS#	Element	(%wt)	Ladle	Product	EPCRA	CAS#
C	Carbon	0.19				Cr	Chromium	0.10		✓	7440-47-3
Mn	Manganese	1.05		✓	7439-96-5	Mo	Molybdenum	0.02			
P	Phosphorous	0.010				V	Vanadium	0.004			
S	Sulphur	0.021				Cb	Columbium	0.001			
Si	Silicon	0.23				C.E.		0.41			
Cu	Copper	0.27		✓	7440-50-8	CuNiCrMo		0.474			
Ni	Nickel	0.08		✓	7440-02-0	CrMo		0.124			

Mechanical Testing				Other			
Test Lab	Accu-Test#503939.0			MILL	CMC-TEXAS		
Test Bar Size	Sacrificial Piece			MHC	3023426		
HBW	157 - 157			EF	Y		
Elg (%)	22.4						
RA (%)	40.6						
Tensile Specimen Size (in)	.506						
Tensile (ksi)	78.8						
Yield (ksi)	46.5						
Gauge Length	2						

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 NACE MR0175, latest edition and dimensions to ASME B16.5 Edition 2009

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.: 212071  
 Certification Date: 7/1/2011

Nicholas Tepovich - Metallurgic Lab Manager