



# Material Test Report

Heat Code: JSN

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: 10734	Sales Order: 97054	Line: 13
	Item Code: 0152400100-0020F		Qty Shipped: 50
	Item Desc: FLG 04.00 0150 SO RF		
	Supplier: CMC		Supplier Heat: 3024415
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	0.09		✓	7440-47-3
Mn	Manganese	1.03		✓	7439-96-5	Mo	Molybdenum	0.02			
P	Phosphorous	0.010				V	Vanadium	0.004			
S	Sulphur	0.022				Cb	Columbium	0.001			
Si	Silicon	0.21				C.E.		0.42			
Cu	Copper	0.24		✓	7440-50-8	CuNiCrMo		0.432			
Ni	Nickel	0.08		✓	7440-02-0	CrMo		0.112			

Mechanical Testing				Other			
Test Lab	AFG			MILL	CMC-TEXAS		
Test Bar Size	Sacrificial Piece			MHC	3024415		
HBW	167 - 167			DESC:	TAG: PO# 269587		
Elg (%)	32.0						
RA (%)	56.0						
Tensile Specimen Size (in)	.505						
Tensile (ksi)	79.9						
Yield (ksi)	48.1						
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

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.: 212419  
Certification Date: 7/7/2011

Nicholas Tepovich - Metallurgic Lab Manager