



# Material Test Report

Heat Code: SDS

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: 11304	Sales Order: 100764	Line: 15
	Item Code: 0151912102-0020F		Qty Shipped: 100
	Item Desc: FLG 12.00 0150 WN RF XH		
	Supplier: CMC		Supplier Heat: 3026373
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	0.12		✓	7440-47-3
Mn	Manganese	1.02		✓	7439-96-5	Mo	Molybdenum	0.02			
P	Phosphorous	0.013				V	Vanadium	0.004			
S	Sulphur	0.022				Cb	Columbium	0.001			
Si	Silicon	0.22				C.E.		0.42			
Cu	Copper	0.27		✓	7440-50-8	CuNiCrMo		0.491			
Ni	Nickel	0.08		✓	7440-02-0	CrMo		0.141			

Mechanical Testing				Other	
Test Lab		AFG		MILL	CMC-TEXAS
Test Bar Size		Sacrificial Piece		MHC	3026373
HBW		170 - 170			
Elg (%)		32.0			
RA (%)		62.0			
Tensile Specimen Size (in)		.497			
Tensile (ksi)		81.0			
Yield (ksi)		56.4			
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 B16.5-2009

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.: 219902  
 Certification Date: 10/4/2011