



# Material Test Report

Heat Code: GMU

An Ameri-Forge Group Company  
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ISO 9001:2000 Certified

PLESA ANAHUAC Y CIAS SA DE CV AV. VALLE DE LAS ALAMEDAS 66-0 54940 TULTITLAN, EDO, MEX	PO: 5647	Sales Order: 68015	Line: 7
	Item Code: 0151910101-0020F		Qty Shipped: 10
	Item Desc: FLG 10.00 0150 WN RF STD		
	Supplier: NUCOR		Supplier Heat: JW08109482
Spec: ASTM A 105/A 105M-(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	0.20				Cr	Chromium	0.15		✓	7440-47-3
Mn	Manganese	0.82		✓	7439-96-5	Mo	Molybdenum	0.04			
P	Phosphorus	0.015				V	Vanadium	0.000			
S	Sulphur	0.020				Cb	Colubium	0.001			
Si	Silicon	0.16				C.E.		0.406			
Cu	Copper	0.31		✓	7440-50-8	CuNiCrMo		0.66			
Ni	Nickel	0.16		✓	7440-02-0	CrMo		0.19			

Mechanical Testing				Other			
Test Lab		AFG		MILL		NUCOR	
Test Bar Size		SACRIFICIAL PIECE		MHC		JW08109482	
HBW		163 - 163		EF		Y	
Elg (%)		23					
RA (%)		33					
Tensile Specimen Size (in)		.245					
Tensile (ksi)		80.5					
Yield (ksi)		47.9					
Gauge Length		1					

Product compliant with NACE MR0175 / ISO 15156, latest edition and dimensions to ANSI 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.: 160432  
 Certification Date: 1/16/2009