



# Material Test Report

Heat Code: HUD

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: 8671	Sales Order: 76145	Line: 12
	Item Code: 0151600102-0020F		Qty Shipped: 30
	Item Desc: FLG 06.00 0150 WN RF XH		
	Supplier: CMC		Supplier Heat: 3017440

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	0.18				Cr	Chromium	0.06		✓	7440-47-3
Mn	Manganese	1.05		✓	7439-96-5	Mo	Molybdenum	0.02			
P	Phosphorous	0.005				V	Vanadium	0.003			
S	Sulphur	0.023				Cb	Columbium	0.001			
Si	Silicon	0.23				C.E.		0.39			
Cu	Copper	0.15		✓	7440-50-8	CuNiCrMo		0.313			
Ni	Nickel	0.08		✓	7440-02-0	CrMo		0.083			

Mechanical Testing					Other		
Test Lab		AFG			MILL		CMC-TEXAS
Test Bar Size		TEST PIECE			MHC		3017440
HBW		149 - 149			EF		Y
Elg (%)		36.0			Fully Killed		Y
RA (%)		62.0					
Tensile Specimen Size (in)		.248					
Tensile (ksi)		74.6					
Yield (ksi)		43.9					
Gauge Length		1					

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.: 190434  
 Certification Date: 9/20/2010

*Nicholas Tepovich*  
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 Nicholas Tepovich - Metallurgic Lab Manager