



# Material Test Report

Heat Code: ggg

An Ameri-Forge Group Company

13770 Industrial Rd. Houston, TX 77015

ISO 9001:2000 Certified

Sales: (713) 868-4421 Fax: (713) 455-8366

PLESA ANAHUAC Y CIAS	PO: 6947	Sales Order: 71161	Line: 17
SA DE CV AV. VALLE DE LAS	Item Code: 0151800101-0020F	Qty Shipped: 50	
ALAMEDAS 66-0	Item Desc: FLG 08.00 0150 WN RF STD		
54940 TULTITLAN, EDO, MEX	Supplier: CMC	Supplier Heat: 3006182	

Spec: ASTM A105/A105M-(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	0.19				Cr	Chromium	0.08		✓	7440-47-3
Mn	Manganese	0.94		✓	7439-96-5	Mo	Molybdenum	0.02			
P	Phosphorous	0.009				V	Vanadium	0.002			
S	Sulphur	0.018				Cb	Columbium	0.001			
Si	Silicon	0.20				C.E.		0.38427			
Cu	Copper	0.21		✓	7440-50-8	CuNiCrMo		0.37			
Ni	Nickel	0.06		✓	7440-02-0	CrMo		0.10			

Mechanical Testing				Other			
Test Lab		AFG		MILL		CMC	
Test Bar Size		SACRIFICIAL PIECE		MHC		3006182	
HBW		156 - 156					
Elg (%)		37					
RA (%)		60					
Tensile Specimen Size (in)		.245					
Tensile (ksi)		78.5					
Yield (ksi)		43					
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 1988) 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.

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