



Material Test Report

Heat Code: HTS

ISO 9001:2000 Certified

An Ameri-Forge Group Company
 13770 Industrial Rd. Houston, TX 77015
 Sales: (713) 868-4421 Fax: (713) 466-8366

PLESA ANAHUAC Y CIAS	PO: 8379	Sales Order: 75369	Line: 16
SA DE CV AV. VALLE DE LAS	Item Code: 0603200100-0021F	Qty Shipped: 20	
ALAMEDAS 66-0	Item Desc: FLG 10.00. 0600 BL RF		
54940 TULTITLAN, EDO, MEX	Supplier: CMC	Supplier Heat: 3013638	
Spec: ASTM A105/A105M-(10)/ASME SA 105/SA 105M-(08a) Section II Part A - Normalized			

Element	(%wt)	Ladle	Product	EPCRA	CAS#	Element	(%wt)	Ladle	Product	EPCRA	CAS#
C	Carbon	0.23				Ni	Nickel	0.08		✓	7440-02-0
Mn	Manganese	1.06		✓	7439-96-5	Cr	Chromium	0.12		✓	7440-47-3
P	Phosphorus	0.022				Mo	Molybdenum	0.019			
S	Sulphur	0.025				V	Vanadium	0.002			
Si	Silicon	0.24				Cb	Colubium	0.003			
Cu	Copper	0.22		✓	7440-50-8	C.E.		0.45			

Mechanical Testing				Heat Treat			
Test Lab	AFG			Norm. Temp. (F)	1675		
Test Bar Size	Test Piece			Norm. (Hrs)	4.0		
HBW	170 - 170			Norm. Cooling Type	AIR		
Elg (%)	26.0			Norm. Location	AFG		
RA (%)	46.0			Other			
Tensile Specimen Size (in)	.246			MILL	CMC-TEXAS		
Tensile (ksi)	85.6			MHC	3013638		
Yield (ksi)	50.9			Country of Origin	USA		
Gauge Length	1			RY	Y		

Product compliant with NACE MR0175, latest edition and dimensions to ANSI B16.5
 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 welding performed.

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.: ^{E. RUIZ} 184951
 Certification Date: 6/24/2010

Nicholas Tepovich - Metallurgic Lab Manager