



Material Test Report

Heat Code: SOE

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: 11762	Sales Order: 103150	Line: 3
	Item Code: 0601600102-0021F		Qty Shipped: 20
	Item Desc: FLG 06.00 0600 WN RF XH		
	Supplier: CMC		Supplier Heat: 3027523
Spec: ASTM A105/A105N-(10)/ASME SA 105/SA 105N-(08a) Section II Part A - Normalized			

Element	(%wt)	Ladle	Product	EPCRA	CAS#	Element	(%wt)	Ladle	Product	EPCRA	CAS#
C	Carbon	0.20				Ni	Nickel	0.08		✓	7440-02-0
Mn	Manganese	0.99		✓	7439-96-5	Cr	Chromium	0.08		✓	7440-47-3
P	Phosphorous	0.008				Mo	Molybdenum	0.025			
S	Sulphur	0.022				V	Vanadium	0.005			
Si	Silicon	0.22				Cb	Columbium	0.001			
Cu	Copper	0.26		✓	7440-50-8	C.E.		0.41			

Mechanical Testing				Heat Treat			
Test Lab	AFG			Norm. Temp. (F)	1675		
Test Bar Size	Sacrificial Piece			Norm. (Hrs)	4		
HBW	149 - 149			Norm. Cooling Type	AIR		
Elg (%)	35.0			Norm. Location	AFG		
RA (%)	61.0			Other MILL CMC-TEXAS MHC 3027523			
Tensile Specimen Size (in)	.494						
Tensile (ksi)	77						
Yield (ksi)	48.2						
Gauge Length	2						

Product compliant with NACE MR0175 / ISO 15156 and NACE MR0103 latest edition and dimensions to ANSI B16.5 - 2009

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.: 228549
 Certification Date: 1/25/2012

Nicholas Tepovich - Metallurgic Lab Manager