



Material Test Report

An Ameri-Forge Group Company
 13770 Industrial Rd. Houston, TX 77015
 Heat Code: JWM
 ISO 9001:2008 Certified
 Sales: (713) 868-4421 Fax: (713) 455-8366

PIESA ANAHUAC Y CIAS	PO: 10492	Sales Order: 95070	Line: 1
SA DE CV AV. VALLE DE LAS	Item Code: 0153600100-00205	Qty Shipped: 30	
ALAMEDAS 66-0	Item Desc: FLG 06.00 0150 BL RF	Supplier Heat: 3021861	
54940 TULTITLAN, EDO, MEX	Supplier: CMC		
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	0.19				Cr	Chromium	0.08			7440-47-3
Mn	Manganese	1.04		✓	7439-96-5	Mo	Molybdenum	0.02			
P	Phosphorous	0.011				V	Vanadium	0.003			
S	Sulphur	0.016				Co	Columbium	0.000			
Si	Silicon	0.23				C.E.		0.41			
Cu	Copper	0.27		✓	7440-50-8	CuNiCrMo		0.452			
Ni	Nickel	0.08		✓	7440-02-0	CrMo		0.102			

Mechanical Testing				Other			
Test Lab	AFG	MILL		CMC-TEXAS			
Test Bar Size	SACRIFICIAL PIECE	MHC		3021861			
HBW	170 - 170						
Elg (%)	30						
RA (%)	52						
Tensile Specimen Size (In)	.498						
Yield (ksi)	80.6						
Gauge Length	47.5						
	2						

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. Product compliant with NACE MR0175, latest edition and dimensions to ASME B16.5

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.: 207624
 Certification Date: 5/11/2011

Nicholas Tepovich

This report is issued in compliance with the requirements of EN10204 3.1 / ISO 10474 3.1b
 Nicholas Tepovich - Metallurgic Lab Manager