



# Material Test Report

Heat Code: 85294/1

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	PO: 9636	Sales Order: 90616	Line: 1
SA DE CV AV. VALLE DE LAS	Item Code: 0151924102-0021F		Qty Shipped: 1
ALAMEDAS 66-0	Item Desc: FLG 24.00 0150 WN RF XH		
54940 TULTITLAN, EDO, MEX	Supplier: Bebitz	Supplier Heat: 85294/1	
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	0.19				Ni	Nickel	0.06		✓	7440-02-0
Mn	Manganese	0.82		✓	7439-96-5	Cr	Chromium	0.21		✓	7440-47-3
P	Phosphorous	0.012				Mo	Molybdenum	0.01			
S	Sulphur	0.008				V	Vanadium	0.004			
Si	silicon	0.23				Cb	Columbium	0.001			
Cu	Copper	0.16		✓	7440-50-8						

Mechanical Testing				Heat Treat			
Test Lab	Bebitz			Norm. Temp. (F)	1670		
Test Bar Size	Sacrificial Piece			Norm. (Hrs)	1/2 hr per inch		
HBW	156 - 156			Norm. Cooling Type	AIR		
Elg (%)	28.6						
RA (%)	48.0						
Tensile Specimen Size (in)	0.498						
Tensile (ksi)	74.6						
Yield (ksi)	45.9						
Gauge Length	2						

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.: 197081  
 Certification Date: 12/30/2010

*Nicholas Tepovich*  
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 Nicholas Tepovich - Metallurgic Lab Manager