

Material Test Report

Heat Code: HPF

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 SA DE CV AV. VALLE DE LAS

Item Code: 0601400102-0021F

PO: 8379

Sales Order: 75369 Line: 22

ALAMEDAS 66-0

Item Desc: FLG 04.00 0600 WN RF XH

Qty Shipped: 10

54940 TULTITLAN, EDO, MEX

Supplier: CMC Supplier Heat: 3016809

Spec: ASTM A105/A105M-(10)/ASME SA 105/SA 105M-(08a) Section II Part A - Normalized

Elem	ent (%wt)	Ladle	Product	EPCR	A CAS#	Elen	ient	(%wt)	Ladle	Product	EPCR	A CAS#
С	Carbon	0.19		·		, Ni	Nickel		0.08		√	7440-02-0
Mn	Manganese	1.05		✓	7439-96-5	Cr	Chromi	ium	0.08		✓	7440-47-3
P	Phosphorous	0.007				Мо	Molybo	denum	0.028			
S	Sulphur	0.021				v	Vanadi	ium	0.003			
Si	Silicon	0.23				Cb	Columb	oium	0.001			
Cu	Copper	0.22		✓	7440-50-8	C.E			0.41			

Mechanical To	esting	Heat	Heat Treat				
Test Lab	AFG	Norm, Temp. (F)	1675				
Test Bar Size	Test Piece	Norm. (Hrs)	4.0				
HBW	149 - 149	Norm. Cooling Type	AIR				
Elg (%)	29.0	Norm. Location	AFG				
RA (%)	58.0	:					
Tensile Specimen Size (in)	.246	0	ther				
Tensile (ksi)	76.9	MILL	CMC-TEXAS				
Yield (ksi)	46.3	MHC	3016809				
Gauge Length	1	Country of Origin	USA				
		EF	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.:

185896

Certification Date:

7/14/2010

Nicholas Tepovich - Metallurgic Lab Manager

This report is issued in compliance with the requirements of EN10204 3.1 / ISO 10474 3.1.b