

Material Test Report

Heat Code: HAG

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 PO: 6649 Sales Order: 70253 Item Code: 0301912180-0021F

Line: 15

ALAMEDAS 66-0

Item Desc: FLG 12.00 0300 WN RF 80

Qty Shipped: 3

Supplier: Warren Steel Holdings Supplier Heat: 10311

54940 TULTITLAN, EDO, MEX

Spec: ASTM A105/A105M-(05)/ASME SA 105/SA 105M-(08a) Section II Part A - Normalized

Elem	ent	(%wt)	Ladle	Product	EPCR/	CAS#	Element	(%wt)	Ladle	Product	EPCR#	CAS#
¢	Carbon		0.19				Ni Nic	kel	0.09		✓ .	7440-02-0
Mn Manganese		0.83		✓ .	7439-96-5	Cr Chr	omium	0.10		✓ .	7440-47-3	
P	Phospho	rous	0.015				Mo Mol	ybdenum	0.02			
S	Sulphur		0.009				V Van	adium	0.001			
Si	Silicon		0.16				Cb Col	umbium	0.0005			
Cu	Copper		0.32		4	7440-50-8	C.E.		0.38			

Mechanical T	esting	He	Heat Treat				
Test Lab	AFG	Norm, Temp. (F)	1675				
Test Bar Size	Test Piece	Norm. (Hrs)	4				
HBW	143 - 143	Norm. Cooling Type	AIR				
Elg (%)	36	Norm, Location	AFG				
RA (%)	62	•					
Tensile Specimen Size (in)	. 495		Other				
Tensile (ksi)	71	MILL	WARREN STEEL				
Yield (ksi)	45.8	MHC	10311				
Gauge Length	2						
		;					
		:					
		;					

Product compliant with NACE MR0175, latest edition and dimensions to ANSI B16.5No 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.

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.:

168393

Certification Date:

7/10/2009

Nicholas Tepovich - Metallurgic Lab Manager

Michaeles Tepare

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