

ALAMEDAS 66-0

PLESA ANAHUAC Y CIAS

SA DE CV AV. VALLE DE LAS

Material Test Report

Heat Code: HVR

An Ameri-Forge Group Company 13770 Industrial Rd. Houston, TX 77015 Sales: (713) 868-4421 Fax; (713) 455-8366

Qty Shipped: 180

ISO 9001:2008 Certified

Sales Order: 90421 Line: 5

Item Code: 0152400100-0020F

Item Desc: FLG 04.00 0150 SO RF

54940 TULTITLAN, EDO, MEX Supplier: CMC Supplier Heat: 3018141

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

PO: 9545

Elen	nent (%wt)	Ladle	Product	EPCR	A CAS#	Element	(%wt)	Ladle	Product	EPCRA	CAS#
C	Carbon	•	0.19				Cr Chromi	um	0.06		√ 7·	140-47-3
Mn	n Mangánese		1.07		✓	7439-96-5	Mo Melybd	enum	0.02			
P	Phosphoro	us	0.008				V Vanadi	um	0.002			
S	Sulphur		0.014				Cb Columb	ium	0.001			
Si	silicon		0.22				C.E.		0.39			
Cu	Copper		0.23		✓	7440-50-8	CuNiCrMo		0.231			
Ni	Nickel		0.09		✓	7440-02-0	CrMo		0.081			

Mechanical T	esting	:	Other
Test Lab	AFG	MILL	CMC-TEXÀS
Test Bar Size	Test Piece	MHC	3018141
HBW	163 - 163	EF	Y
Elg (%)	38.0	Fully Killed	¥
RA (%)	63.0		
Tensile Specimen Size (in)	.249		
Tensile (ksi)	80.0	•	
Yield (ksi)	48.5		
Gauge Length	1	•	
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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 and meets all requirements of ASTM A105 and with dimensions to ASME B16.5 Product compliant with NACE MR0175, latest edition

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.: 196501

Certification Date: 12/16/2010

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

Nicholas Tepovich - Metallurgic Lab Manager