

ALAMEDAS 66-0

PLESA ANAHUAC Y CIAS SA DE CV AV. VALLE DE LAS

54940 TULTITLAN, EDO, MEX

Material Test Report

Heat Code: JUL

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

ISO 9001:2008 Certified

Line: 4 Sales Order: 98867

Qty Shipped: 10

Item Code: 0301200101-0020F Item Desc: FLG 02.00 0300 WN RF STD

Supplier Heat: 3023463

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

PO: 11015

C Carbon 0.19 Mn Manganese 1.04	Elem	ent (%w	rt) Ladle	Product	EPCR	A CAS#	Element	(%wt)	Ladle	Product	EPCRA	CAS#
P Phosphorous 0.012 V Vanadium 0.004 S sulphur 0.018 Cb Columbium 0.001 Si Silicon 0.23 C.E. 0.42 Cu Copper 0.31 ✓ 7440-50-8 CuNiCrMo 0.537	Ċ	Carbon	0.19				:Cr Chromi	um	0.11		√ 7	440-47-3
S Sulphur 0.018 Si Silicon 0.23 Cu Copper 0.31	Mn	Manganese	1.04		✓	7439-96-5	Mo Molybd	enum	0.03			
Si Silicon 0.23 C.E. 0.42 Cu Copper 0.31 ✓ 7440-50-8 CuNiCrMo 0.537	P	Phosphorous	0.012				V Vanadi	um	0.004			
Cu Copper 0.31 \(7440-50-8 \) CuNiCrMo	S	Sulphur -	0.018				Cb Columb	ium -	0,001			
Cu Copper 0.31	Si	Silicon	0.23				C.E.		0.42			
0.127	Cu	Copper	0.31		✓	7440-50-8	CuNiCrMo		0.537			
	Ni	Nickel	0.09		✓	7440-02-0	CrMo		0.137			

		4			
Mechanical T	esting				
Test Lab	AFG	MILL		CMC-TEXAS	
Test Bar Size	Sacrificial Piece	MHC		3023463	
нвш	170 - 170				
Elg (%)	29.0				
RA (%)	56.0				
Tensile Specimen Size (in)	.496				
Tensile (ksi)	81.6				
Yield (ksi)	47				
Gauge Length	2		•		
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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 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 state of t present in this product. It is your responsibility alone to determine whether your facility is required to submit a Toxic Release Inventory Report under EPCRÁ Section 313.

Certification No.:

225128

Certification Date:

8/16/2011

Nicholas Tepovich - Metallurgic Lab Manager

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