Material Test Report

Heat Code: GJW

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: 5393

Sales Order: 67243 Qty Shipped: 15

Line: 17

ALAMEDAS 66-0

Item Code: 0301200102-0020F Item Desc: FLG 02.00 0300 WN RF XH A105

NHT COFFR

54940 TULTITLAN, EDO MEX

Supplier: CMC

Supplier Heat: 3005332

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

C Carbon 0.20 Cr Chromium 0.06 ✓ 7440-47-3 Mn Manganese 0.90 ✓ 7439-96-5 Mo Molybdenum 0.021 P Phosphorous 0.007 V Vanadium 0.001 S Sulphur 0.020 Cb Columbium 0.002 Si Silicon 0.19 C.E. 0.390 Cu Copper 0.27 ✓ 7440-50-8 CuNiCrMo 0.43 Ni Nickel 0.08 ✓ 7440-02-0 CrMo 0.08	Elem	ent	(%wt)	Ladle	Product	EPCRA	CAS#	Elem	ent	(%wt)	Ladle	Product	EPCRA	CAS#
P Phosphorous 0.007 V Vanadium 0.001 S Sulphur 0.020 Cb Columbium 0.002 Si Silicon 0.19 C.E. 0.390 Cu Copper 0.27 ✓ 7440-50-8 CuNiCrMo 0.43	С	Carbon		0.20				Cr	Chromi	um	0.06		✓ 7	440-47-3
S Sulphur 0.020 Cb Columbium 0.002 Si Silicon 0.19 C.E. 0.390 Cu Copper 0.27 ✓ 7440-50-8 CuNiCrMo 0.43	Mn	Mangan	esė	0.90		✓ .	7439-96-5	Мо	Molybd	enum	0.021			
Si Silicon 0.19 C.E. 0.390 Cu Copper 0.27 ✓ 7440-50-8 CuNiCrMo 0.43	P	Phosph	orous	0.007				v	Vanadi	um	0.001			
Cu Copper 0.27 ✓ 7440-50-8 CuNiCrMo 0.43	S	Sulphu	r	0.020				СЪ	Columb	ium	0.002			
	Si	Silico	n	0.19				C.E.			0.390			
Ni Nickel 0.08 ✓ 7440-02-0 CrMo 0.08	Cu	Copper		0.27		✓ .	7440-50-8	CuNi	CrMo		0.43			
	Ni	Nickel		0.08		/	7440-02-0	CrMo			80.0			
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			O41
Mechanic	al		Other
Test Lab	AFG	Country of Origin	USA (US)
Test Bar Size	SACRIFICIAL PIECE	VD	Y
HBW	156-156	EF	Y
Elg (%)	35.0		
RA (%)	64,0		
Tensile Specimen Size (in)	0.247		
Tensile (ksi)	75.9		
Yield (ksi)	43.3		
Gauge Length	1,00		
		:	
		:	
		;	
		:	

Product compliant with NACE MR0175 / ISO 15156, latest edition and dimensions to ANSI B16.5 Product compliant with and meets all requirements of ASTM Al05/ASME SAl05, latest edition.

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.

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.:

154617

Certification Date:

11/21/2008

Nicholas Tepovich - Metallurgic Lab Manager

Nie ale Legares

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