

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 ALAMEDAS 66-0

PO: 5393

Sales Order: 67243

Line: 17

Item Code: 0301200102-0020F

Qty Shipped: 15

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	Eler	nent (%wt)	Ladle	Product	EPCR	A CAS#	Element	(%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	c	Carbon	0.20				Cr Chrom	ium	0.06			140-47-3
S Sulphur 0.020 Cb Columbium 0.002 Si Silicon 0.19 C.E. 0.390 Cu Copper 0.27	Mn	Manganese	0.90		1	7439-96-5	Mo Molybo	denum	0.021			
Si Silicon 0.19 C.E. 0.390 Cu Copper 0.27 ✓ 7440-50-8 CuNiCrMo 0.43	P	Phosphorous	0.007				V Vanadi	ium	0.001			
Cu Copper 0.27 ✓ 7440-50-8 CuNiCrMo 0.43	S	Sulphur	0.020				Cb Columb	oium	0.002			
Vi dinizino 0,43	Si	Silicon	0.19				C.E.		0.390			
Ni Nickel 0.08 / 7440-02-0 CrMo 0.09	Cu	Copper	0.27		~	7440-50-8	CuNiCrMo		0.43			
0.00	Ni	Nickel	0.08		1	7440-02-0	CrMo		0.08			
							:					

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					
(%) A	64.0					
rensile Specimen Size (in)	0.247					
Tensile (ksi)	75.9					
Yield (ksi)	43.3					
Gauge Length	1.00					
		1				
		•				
		;				

Product compliant with NACE MR0175 / ISO 15156, latest edition and dimensions to ANSI 816.5 Product compliant with and meets all requirements of ASTM A105/ASME SA105, 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 1985) 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 Legarel Nicholas Tepovich - Metallurgic Lab Manager

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