Coffer

Material Test Report

Heat Code: AYL

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

54940 TULTITLAN, EDO MEX

PO: 5101 Sa Item Code: 0301400102-0020F

Sales Order: 66536 Line: 13

Qty Shipped: 10 F XH A105 NHT COFFR

Item Desc: FLG 04.00 0300 WN RF XH A105 NHT COF Supplier: CMC Supplier Heat: 3002791

Spec: ASME SA-105/SA-105M 2004 Section II/ASTM A105/A105M-03

P Phosphorous 0.013 V Vanadium 0.001 S Sulphur 0.025 Cb Columbium 0.002 Si Silicon 0.19 C.E. 0.406 Cu Copper 0.24 ✓ 7440-50-8 CuNiCrMo 0.46	ment	(%wt)	Ladle	Product	EPCR	A CAS#	Elem	ent	(%wt)	Ladle	Product	EPCRA	CAS#
P Phosphorous 0.013	Carbon		0.21				Cr	Chroni	tun.	0.11		V 7	440-47-3
S Sulphur 0.025 Cb Columbium 0.002 Si Silicon 0.19 C.E. 0.406 Cu Copper 0.24 ✓ 7440-50-8 CuNiCrMo 0.46	Manganes	е	0.88		1	7439-96-5	Мо	Molybd	enum	0.025			
Si Silicon 0.19 C.E. 0.406 Cu Copper 0.24 ✓ 7440-50-8 CuNiCrMo 0.46	Phosphor	ous	0.013				v	Vanadi	מנט	0.001			
Cu Copper 0.24 ✓ 7440-50-8 CuNiCrMo 0.46	Sulphur		0.025				Cb	Columb	ium	0.002			
	Silicon		0.19				C.E.			0.406			
	Copper		0.24		1	7440-50-8	CuNi	CrMo		0.46			
Ni Nickel 0.09 ✓ 7440-02-0 :CrMo 0.13	Nickel		0.09		1	7440-02-0	CrMo			0.13			

Test Lab AFG Test Bar Size SACRIFICIAL PIECE HBW 163-163 Elg (%) 30.0 RA (%) 60.0 Tensile Specimen Size (in) 0.496 Tensile (ksi) 76.6 Yield (ksi) 42.7 Gauge Length 2.00	
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Product compliant with NACE MR0175 / ISO 15156, latest edition and dimensions to ANSI B16.5 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 1988) 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 reaponsibility alone to determine whether your facility is required to submit a Toxic Release-Inventory Report under EPCRA Section 313.

Certification No.:

149810

Certification Date:

9/23/2008

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

Violater Teparel

Nicholas Tepovich - Metallurgic Lab Manager