Coffer®

54940 TULTITLAN, EDO MEX

Material Test Report

Heat Code: GKG

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: 5526

Item Code: 015

 PO: 5526
 Sales Order: 67635
 Line: 2

 Item Code: 0153600100-0020F
 Qty Shipped: 15

 Item Desc: FLG 06.00 0150 BL RF
 A105
 NHT COFFR

Supplier: CMC Supplier Heat: 3006171

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

C Carbon 0.20 Cr Chromium 0.10 ✓ Mn Manganese 0.94 ✓ 7439-96-5 Mo Molybdenum 0.023 P Phosphorous 0.010 V Vanadium 0.003 S Sulphur 0.013 Cb Columbium 0.002 Si Silicon 0.25 C.E. 0.402 Cu Copper 0.22 ✓ 7440-50-8 CuNicrmo 0.43	Elen	nent (%wt)	Ladie	Product	EPCR	A CAS#	Element	t (%wt)	Ladle	Product	EPCRA	CAS#
P Phosphorous 0.010 V Vanadium 0.003 S Sulphur 0.013 Cb Columbium 0.002 Si Silicon 0.25 C.E. 0.402 Cu Copper 0.22 ✓ 7440-50-8 CuNiCrMo 0.43	С	Carbon	0.20				Cr Ch	romium	0.10		1 70	40-47-3
S Sulphur 0.013 Cb Columbium 0.002 Si Silicon 0.25 C.E. 0.402 Cu Copper 0.22 ✓ 7440-50-8 CuNiCrMo 0.43	Mn	Manganese	0.94		✓	7439-96-5	Мо мо	lybdenum	0.023			
Si Silicon 0.25 C.E. 0.402 Cu Copper 0.22 ✓ 7440-50-8 CuNiCrMo 0.43	P	Phosphorous	0.010				V Va	nadium	0.003			
Cu Copper 0.22 ✓ 7440-50-8 CuNiCrMo 0.43	S	Sulphur	0.013				Cb Co	lumbium	0.002			
	Si	Silicon	0.25				C.E.		0.402			
and the second of the second o	Cu	Copper	0.22		✓	7440-50-8	CuNiCr	Мо	0.43			
N1 Nickel $0.09 7440-02-0$ CrMo 0.12	Ni	Nickel	0.09		1	7440-02-0	CrMo		0.12			

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Mechanic	ai	Other				
Test Lab	AFG	VD	Y			
Test Bar Size	SACRIFICIAL PIECE	EF	Y			
HBW	170-170	•				
Elg (%)	32.0					
RA (%)	64.0	•				
Tensile Specimen Size (in)	0.496	;				
Tensile (ksi)	83.3	1				
Yield (ksi)	48.0					
Gauge Length	2.00	:				
		:				
		•				
		:				
		•				
		•				

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

155520

Certification Date:

12/10/2008

Nicholas Tepovich - Metallurgic Lab Manager

Vieldalas Legas

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