Coffer®

Material Test Report

Heat Code: GKJ

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 Sa Item Code: 0151300102-0020F

Sales Order: 67635 Line: 22

OF Qty Shipped: 30

Hem Desc: FLG 03.00 0150 WN RF XH

A105 NHT COFFR

54940 TULTITLAN, EDO MEX

Supplier: CMC

Supplier Heat: 3006174

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

Elen	nent (%wt)	Ladle	Product	EPCR	A CAS#	Element	(%wt)	Ladle	Product	EPCRA	CAS#
С	Carbon	0.21				Cr Chromi	um	0.07		V 7	440-47-3
Mn	Manganese	0.91		✓	7439-96-5	Mo Molybo	ienum	0.017			
P	Phosphorous	0.009			•	V Vanadi	um	0.002			
S	Sulphur	0.016				:Cb Columb	oium	0.001			
Si	Silicon	0.20				C.E.		0.397			
Cu	Copper	0.21		✓	7440-50-8	CuNiCrMo		0.36			
Ni	Nickel	0.06		✓	7440-02-0	CrMo		0.09			

Mechanica	al	Other					
Test Lab	AFG	EF					
Test Bar Size	SACRIFICIAL PIECE						
нви	143-143						
Elg (%)	31.0						
RA (%)	59.0						
Tensile Specimen Size (in)	0.249						
Tensile (ksi)	74.1						
Yield (ksi)	43.0						
Gauge Length	1.00						
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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 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.:

155499

Certification Date:

12/10/2008

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Nicholas Tepovich - Metallurgic Lab Manager

Violadas Jap

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