Coffer®

Material Test Report

Heat Code: AYH

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 PO: 5393 Sales Order: 67243 Line: 18 Item Code: SA DE CV AV. VALLE DE LAS 0601600102-0021F Qty Shipped: 12 ALAMEDAS 66-0 Item Desc: FLG 06.00 0600 WN RF XH A105 NRM COFFR 54940 TULTITLAN, EDO MEX Supplier: CMC Supplier Heat: 3003124

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

Elem	ent (%wt)	Ladle	Product	EPCRA CA	AS#	Element	(%wt)	Ladie	Product	EPCR/	A CAS#
C	Carbon	0.18				Ni Nick	(e)	0.07		✓	7440-02-0
Mn	Manganese	0.90		√ 7439-	-96-5	Cr Chro	mium	0,07		✓	7440-47-3
P	Phosphorous	0.009				Mo Moly	ybdenum	0.016			
S	Sulphur	0.024				V Vana	adium	0.001			
Si	Silicon	0.160				Cb Colu	ımbium	0.001			
Cu	Copper	0.20		√ 7440-	-50-8	C.E.		0.36			
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Mechanic	al	. Heat	Treat
'est Lab	AFG	Norm. Temp. (F)	1675
est Bar Size	SACRIFICIAL PIECE	Norm. (Hrs)	4.0
MAI	149-149	Norm. Cooling Type	AIR
31g (%)	36.0	Norm. Location	AFĠ
IA (%)	63.0		
ensile Specimen Size (in)	0.498	Ot	her
ensile (ksi)	71.4	Country of Origin	USA (US)
'ield (ksi)	41,6	EF	Y
Sauge Length	2.00		
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Product compliant with NACE MR0175, latest edition and dimensions to ANSI B16.5
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 (Tille 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.:

154620

Certification Date:

11/21/2008

Nicholas Tepovich - Metallurgic Lab Manager

Vielalas Legare

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