Coffer®

Material Test Report

Heat Code: YZV

An Ameri-Forge Group Company 13770 Industrial Rd., Houston, TX 77015

Line: 9

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:
 3817
 Sales Order:
 63247

 Item Code:
 0302800100-0020F
 Qty Street

 Item Desc:
 FLG 08.00 0300 SO RF
 A105

Qty Shipped: 15

A105 NHT COFFR

Supplier: CMC

Supplier Heat: 257492

Spec: ASTM A 105/A 105M-03/ASME SA 105/SA 105M-04, Melt Practice EF

Elem	ent (%wt)	Ladle	Product	EPCRA CAS#	Element (%wt)	Ladle	Product	EPCRA CAS#
С	Carbon	0.20			Cr Chromium	0.14		√ 7440-47-3
Mn	Manganese	0.91		√ 7439-96-5	Mo Molybdenum	0.024		
P	Phosphorous	0.011			V ⁶ Vanadium	0.001		
S	Sulphur	0.014			Cb Columbium	0.002		
Si	Silicon	0.19			C.E.	0.411		
Cu	Copper	0.31		✓ 7440-50-8	CuNiCrMo	0.56		
Ni	Nickel	0.09		✓ 7440-02-0	CrMo	0.16		
					:			

Mechanic	al	: Other			
Test Bar Size	SACRIFICIAL PIECE	Country of Origin	USA (US)		
HBW .	167-167	EF	Y		
Elg (%)	34.0				
RA (%)	63.0				
Tensile Specimen Size (in)	0.502				
Tensile (ksi)	78.4				
Yield (ksi)	45.6				
Gauge Length	2.00				
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Material on this reportis certified to NACE MR-01-75 and DIMS. to ANSI B16.5 Product compliant with NACE MR0175, latest edition.

Product compliant with and meets all requirements of ASTM A105/ASME SA105-05.

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.:

134601

Certification Date:

2/7/2008

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

Puneet Saggar - Plant Metallurgist