## Coffer

## **Material Test Report**

Heat Code: XZN

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

 Item Code:
 0151910101-0020F
 Qty Shipped:
 20

 Item Desc:
 FLG
 10.00
 0150
 WN
 RF
 STD
 A105
 NHT
 COFFR

Supplier: CMC Supplier Heat: 256018

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

Element (%wt)	Ladle	Product EPCRA CAS#	Element (%wt)	Ladle	Product	EPCRA CAS#
C Carbon	0 18		: Cr Chromium	0.14		√ 7440-47-3
Mn Manganese	0 91	√ 7439-96-5	Mo Molybdenum	0 025		
P Phosphorous	0 011		V Vanadium	0.002		
S Sulphur	0 026		Cb Columbium	0.002		
Si ** Silıcon	0.20		CE	0 386		
Cu Copper	0.23	√ 7440-50-8	CunicrMo	0.48		
Ni Nickel	0.09	√ 7440-02-0	CrMo	0 16		
112 1120100						

Mechan	ical				0	ther		
Test Lab	AFG	Country	οí	Origin			USA (U	JS)
Test Bar Size	SACRIFICIAL PIECE	EF					Y	
HBW	163-167							
Elg (%)	33 0							
RA (%)	59 0							
Tensile Specimen Size (in)	0.501							
Tensile (ksi)	78.0							
Yield (ksi)	41.6							
Gauge Length	2 00							

Product compliant with NACE MRO175, 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:

127775

Certification Date:

10/16/2007

Kevin Papich - Tech Svcs Manager

This report is issued in compliance with the requirements of EN10204 3 1 / ISO 10474 3 1 b