

Material Test Report

Heat Code: AJX

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: 4540 Sales Order: 64906 Line: 12 Qty Shipped: 10 Item Code: 0153910100-0020F Item Desc: FLG 10.00 0150 BL RF A105 NHT COFFR

54940 TULTITLAN, EDO MEX Supplier: CMC

Supplier Heat: 3000778 Spec: ASTM A 105/A 105M-05/ASME SA 105/SA 105M 2007 Section II, Part A, Melt Practice EF

Element	(%wt)	Ladle	Product	EPCR	A CAS#	Elei	ment	(%wt)	Ladle	Product	EPCRA	CAS#
C Carbo	n	0.20				Cr	Chrom	ium	0.11		17	440-47-3
Mn Manga	nese	0.92		1	7439-96-5	Mo	Molybo	denum	0.033			
P Phosp	horous	0.008				V	Vanad:	ium	0.001			
S. Sulph	ur	0.017				Cb	Colum	oium	0.002			
Si Silic	on	0.21				C.E			0.405			
Cu Coppe	r	0.24		1	7440-50-8	CuN	iCrMo		0.49			
Ni Nicke	1	0.11		1	7440-02-0	: CrM	0		0.14			

	Mechanical			ther		
rest Lab		AFG	Country of Origin	USA (US)		
Test Bar Size		SACRIFICIAL PIECE	EF	Y		
HBW		163-163				
Elg (%)		32.0				
RA (%)		62.0				
Tensile Specimen Size	(in)	0.497				
Censile (ksi)		80.5				
rield (ksi)		46.3				
Sauge Length	112	2.00				
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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.:

142804

Certification Date: 5/30/2008

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

Puneet Saggar - Plant Metallurgist