

Material Test Report

Heat Code: XWV

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

PO: 3050

Sales Order: 60057

Qty Shipped: 30

Line: 27

Item Code: 0603800100-0021F Item Desc: FLG 08.00 0600 BL RF

NRM COFFR

Supplier: CMC

Supplier Heat: 255336

Spec: ASTM A 105/A 105M-03/ASME SA 105/SA 105M-04 Normalized

Eleme	ent (%wt)	Ladle	Product	EPCR	A CAS#	Elem	ent	(%wt)	Ladle	Product	EPCR	A CAS#
С	Carbon	0.22				Ni	Nicke:	1	0.08		✓	7440-02-0
Mn	Manganese	0.91		✓	7439-96-5	Cr	Chrom:	ium	0.11		✓	7440-47-3
P	Phosphorous	0.006				Mo	Molybo	denum	0.018			
S	Sulphur	0.017				V	Vanad:	ium	0.001			
Si	Silicon	0.20				Cb	Colum	bium	0.001			
Cu	Copper	0.20		✓	7440-50-8	C.E.			0.42			

Mechanic	ral	: Heat Tr	Heat Treat					
	AFG	Norm. Temp. (F)	1675					
Test Lab		•	4.0					
Test Bar Size	SACRIFICIAL PIECE	Norm. (Hrs)						
HBW	149-149	Norm. Cooling Type	AIR					
Elg (%)	31.0	Norm. Location	AFG					
RA (%)	62.0							
Tensile Specimen Size (in)	0.501	Othe	r					
Tensile (ksi)	77.2	Country of Origin	USA (US)					
Yield (ksi)	46.5	EF	Y					
Gauge Length	2.00							
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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.:

119674

Certification Date:

6/14/2007

Kevin Papich - Tech. Svcs. Manager

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