

Material Test Report

Heat Code: XZK

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

NRM COFFR

Line: 22

ISO 9001:2000 Certified

Sales: (713) 868-4421 Fax: (713) 455-8366

PLESA ANAHUAC Y CIAS SA DE CV AV. VALLE DE LAS

Item Code: 0601200101-0021F

Qty Shipped: 11

ALAMEDAS 66-0 54940 TULTITLAN, EDO MEX Item Desc: FLG 02.00 0600 WN RF STD A105

Supplier: CMC Supplier Heat: 253920

Sales Order: 60057

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

PO: 3050

Elem	ent (%wt	Ladle	Product	EPCRA	A CAS#	Element	(%wt)	Ladle	Product	EPCR/	A CAS#
С	Carbon	0.20				Ni Nic	kel	0.08		✓	7440-02-0
Mn	Manganese	0.89		✓	7439-96-5	Cr Chr	omium	0.12		✓	7440-47-3
P	Phosphorous	0.013				Mo Mol	ybdenum	0.021			
S	Sulphur	0.020				V Van	adium	0.002			
Si	Silicon	0.19				Cb Col	umbium	0.001			
Cu	Copper	0.23		✓	7440-50-8	C.E.		0.40			
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Mechanic	al	Heat Treat			
Test Lab	AFG	Norm. Temp. (F)	1675		
Test Bar Size	SACRIFICIAL PIECE	Norm. (Hrs)	4.0		
HBW	143-146	Norm. Cooling Type	AIR		
Elg (%)	34.0	Norm. Location	AFG		
RA (%)	57.0				
Tensile Specimen Size (in)	0.245	Ot	her		
Tensile (ksi)	80.2	Country of Origin	USA (US)		
Yield (ksi)	48.2	EF	Y		
Gauge Length	1.00				
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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.:

119665

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