

Material Test Report

Heat Code: CKS

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

Item Code: 0601600102-0021F

Line: 28

ALAMEDAS 66-0

Item Desc: FLG 06.00 0600 WN RF XH

Qty Shipped: 10

54940 TULTITLAN, EDO, MEX

Supplier: CMC

PO: 6051

Supplier Heat: 3004212

Sales Order: 68976

Spec: ASTM A 105/A 105M-(05)/ASME SA 105/SA 105M-(08a) Section II Part A - Normalized

Eleme	ent	(%wt)	Ladle	Product	EPCR	A CAS#	Elem	ent	(%wt)	Ladle	Product	EPCR	A CAS#
С	Carbon		0.19		*****		Ni	Nickel		0.10		✓	7440-02-0
Mn	Mangane	ese	0.96		✓	7439-96-5	Cr	Chromi	um	0.11		✓	7440-47-3
P	Phospho	rous	0.011				Мо	Molybd	lenum	0.027			
s	Sulphur	:	0.022				v	Vanadi	um	0.001			
Si	Silicon	1	0.19				Cb	Columb	ium	0.002			
Cu	Copper		0.26		✓	7440-50-8	C.E.			0.4016			
							:						

		<u>:</u>					
Mechanical Te	esting	Heat Treat					
Test Lab	AFG	Norm. Temp. (F)	1675				
Test Bar Size	SACRIFICIAL PIECE	Norm. (Hrs)	4				
HBW	143 - 143	Norm, Cooling Type	AIR				
Elg (%)	35	Norm. Location	AFG				
RA (%)	63						
Tensile Specimen Size (in)	.494	Other					
Tensile (ksi)	72.1	MILL	CMC				
Yield (ksi)	43.1	MHC	3004212				
Gauge Length	2	EF	Y				
		•					

Product compliant with NACE MR0175, latest edition and dimensions to ANSI B16.5 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.:

164497

Certification Date:

3/30/2009

Nicholas Tepovich - Metallurgic Lab Manager

Vielelas Tepare

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