

Material Test Report

Heat Code: CWU

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

PO: 6649 Item Code: 0301912180-0020F

Line: 16 Sales Order: 70253 Qty Shipped: 2

ALAMEDAS 66-0

item Desc: FLG 12.00 0300 WN RF 80

54940 TULTITLAN, EDO, MEX

Supplier: CMC

Supplier Heat: J84969

Spec: ASTM A105/A105M-(05)/ASME SA 105/SA 105M-(08a) Section II Part A

Eleme	ent (%wt)	Ladle	Product	EPCR	A CAS#	Eleme	nt	(%wt)	Ladle	Product	EPCRA	CAS#
С	Carbon	0.20				Cr (Chromiu	m	0.14		√ 7	440-47-3
Mn	Manganese	0.85		✓	7439-96-5	Mo 1	Molybde	num	0.03			
P	Phosphorous	0.008				v 1	Vanadiu	m	0.002			
s	Sulphur	0.016				Cb (Columbi	um	0.000			
Si	Silicon	0.23				C.E.			0.39987			
Cu	Copper	0.27		✓	7440-50-8	CuNic	CrMo		0.53			
Ni	Nickel	0.09		✓	7440-02-0	CrMo			0.17			

Mechanical To	esting	:	Other
Test Lab	AFG	MILL	CMC
Test Bar Size	SACRIFICIAL PIECE	мнс	J84969
HBW	156 - 156	٧D	Y
Elg (%)	26	EF	Y
RA (%)	41		
Tensile Specimen Size (in)	.499		
Tensile (ksi)	77.4		
Yield (ksi)	43.0		
Gauge Length	2		
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		•	
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Product compliant with NACE MR0175 / ISO 15156, latest edition and dimensions to ANSI B16.5 Product compliant with and meets all requirements of ASTM A105/ASME SA105, latest edition. 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 end 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.:

167952

Certification Date:

6/30/2009

Nicholas Tepovich - Metallurgic Lab Manager

Violales Jep

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