

Material Test Report

Heat Code: 1478

An Ameri-Forge Group Company 13770 Industrial Rd. Houston, TX 77015 Sales: (713) 868-4421 Fax: (713) 455-8366

ISO 9001:2008 Certified

Sales Order: 92873

Line: 12

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

Item Code: 0151250102-CG20F

Qty Shipped: 20

ALAMEDAS 66-0

Item Desc: FLG 02.50 0150 WN RF XH

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54940 TULTITLAN, EDO, MEX

Supplier: Boltex

Supplier Heat: 1478

Spec: ASTM A105/A105M-(10)/ASME SA 105/SA 105M-(08a) Section II Part A

PO: 10179

Eler	nent (%wt)	Ladle	Product	EPCR	A CAS#	Element	(%wt)	Ladle	Product	EPCRA	CAS#
С	Carbon	0.19				Cr Chromi	ium	0.07		✓ 74	40-47-3
Mn	Manganese	1.08		1	7439-96-5	Mo Molybo	denum	0,02			
P	Phosphorous	0.009				V Vanadi	Lum	0.002			
S	Sulphur	0.022				Cb Columb	oium	0.002			
Si	Silicon	0.25				C.E.		0.407			
Cu	Copper	0.21		1	7440-50-8	CuNiCrMo		0.376			
Ni	Nickel	80.0		✓	7440-02-0	CrMo		0.086			
			110			;				· 44	

Mechanical Testing								
Test Bar Size	Sacrificial Piece							
нвм	159 - 159							
Elg (%)	33.8							
RA (%)	62.0							
Tensile Specimen Size (in)	.5							
Tensile (ksi)	77.8							
Yield (ksi)	46.0							
Gauge Length	2							

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. No weld repair performed on this product.

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

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 Reauthonization 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.:

212431

Certification Date:

7/7/2011

Nicholas Tepovich - Metallurgic Lab Manager

Vielales Lepa