

FLESA ANAHUAC Y CIAS

SA DE CV AV. VALLE DE LAS

Material Test Report

Heat Code: JUC

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

Supplier Heat: 3024594

ISO 9001:2008 Certified

PO: 10734 Sales Order: 97054 Line: 10

Item Code: 0151600102-0020F Qty Shipped: 50

ALAMEDAS 66-0 Item Desc: FLG 06.00 0150 WN RF XH 54940 TULTITLAN, EDO, MEX

Supplier: CMC

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

<u> </u>						Elemen	it (%wt)	Ladle	Product	EPCRA	CAS#
_	Carbon	0.19	2000			Cr c	romium	0.09		V 7	440-47-3
Mn.	Manganese	1.00		1	7439-96-5	Mo Mo	olybdenum	0.02			
P	Phosphorous	0.011				V Va	anadium	0.004			
S	Sulphur	0.021	_			Cb co	olumbium	0.001	_		
Si.	Silicon	0.23	_			C.E.		0.40			
Cu	Copper	0.26		1	7440-50-8	CuNiCr	Mo	0.454			
Ni	Nickel	0.08		1	7440-02-0	CrMo		0.114			

Mechanical Test	ing	Other				
Test Lab	AFG	MILL	CMC-TEXAS			
Test Bar Size	Sacrificial Piece	MHC	3024594			
HBW .	163 - 163	!				
Elg (%)	33					
RA (%)	65					
Tensile Specimen Size (in)	.250	•	•			
Tensile (ksi)	80.8	:				
Yield (ksi)	48.6					
Gauge Length	1					
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		•				
		•				
		<u>:</u>				
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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. 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-lo-Know Act (Title III of the Superfund Amendments and Reauthorization Act of 1886) 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.:

212417

Certification Date:

7/7/2011

Nicholas Tepovich - Metallurgic Lab Manager