

54940 TULTITLAN, EDO, MEX

Material Test Report

Heat Code: нјј

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

ISO 9001:2000 Certified

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

Line: 6 Sales Order: 72546 PO: 7456 PLESA ANAHUAC Y CIAS Qty Shipped: 30 Item Code: 0151400102-0020F SA DE CV AV. VALLE DE LAS Item Desc: FLG 04.00 0150 WN RF XH ALAMEDAS 66-0 Supplier Heat: 3014065 Supplier: CMC

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

Eleme	nt (%	wt)	Ladle	Product	EPCR	A CAS#	Element	(%wt)	Ladle	Product	EPCRA	CAS#
	Carbon		0.18				:Cr Chrom	ium	0.09		√ ;	7440-47-3
Mn i	Manganese		1.03		✓	7439-96-5	Mo Molyb	denum	0.02			
P i	- Phosphorou	s	0.008				V Vanad	ium	0.002			
s s	Sulphur		0.015				Cb Columb	bium	0.002			
Si s	Silicon		0.21				C.E.		0.39			
Cu (Copper		0.19		✓	7440-50-8	CuNiCrMo		0.40			
Ni 1	Nickel		0.10		✓	7440-02-0	CrMo		0.11			
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		: <u>.</u>					
Mechanical T	esting		Other				
Test Lab	AFG	MILL	CMC-TEXAS				
Test Bar Size	Test Piece	MHC	3014065				
нвм	156 - 156	EF	Y				
Elg (%)	33	Fully Killed	Y				
RA (%)	64						
Tensile Specimen Size (in)	.249						
Tensile (ksi)	77.3	:					
Yield (ksi)	43.2						
Gauge Length	1						
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Product compliant with NACE MR0175, latest edition and dimensions to ASME 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 from of mercury roundamination and no mercury bearing equipment was used in manufacturing, fabrication or tosting. Yield strength was determined using PLEASA ANAHUAC Y CLAS. S.A. DE C.V. the 0.2% offset method.

in one or more to contract subject to the reporting requirements of Section 313 of the Emergency Planning and Amendments and Reauthorization Act of 1986) and 40 C.F.R. Part 372. Potest ally reportable chemicals are indicated with a act Services (CAS) registry number is provided for each such chemical in add por to the percent by weight of the chemical in add por to the percent by weight of the chemical in such that were facilities to explicit a facility in senting the second index EPCPA Section 343. EPCRA Supplier Notification: This product may con Community Right-to-Know Act (Title III of the Superfund

checkmark in the "EPCRA" column and a Chemical Abs port under EPCRA Section 313. Texic Release Inventory present in this product. It is your responsibility alone to ermine whether your facility is required to submit a

FECHA

E. RUIZ

Certification No.: 178004 Certification Date: 2/13/2010

Nicholas Tepovich - Metallurgic Lab Manager