

Material Test Report

Heat Code: SDK

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

ISO 9001:2008 Certified

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

PLESA ANAHUAC Y CIAS SA DE CV AV. VALLE DE LAS ALAMEDAS 66-0

54940 TULTITLAN, EDO, MEX

 PO: 11304
 Sales Order: 100764
 Line: 10

 Item Code: 0156400100-0020F
 Qty Shipped: 30

Item Desc: FLG 04.00 0150 TH RF

Supplier: CMC Supplier Heat: 3026256

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

C Carbon 0.20	Elen	nent	(%wt)	Ladle	Product	EPCR	A ĆÁS#	Element	(%wt)	Ladle	Product	EPCRA	CAS#
P Phosphorous 0.014 V Vanadium 0.004 S sulphur 0.014 Cb Columbium 0.001 Si silicon 0.22 C.E. 0.43 Cu Copper 0.37 ✓ 7440-50-8 CuNiCrMo 0.616				0.20	· · · · · · · · · · · · · · · · · · ·			Cr Chrom	Lum	0.12		√ 7	440-47-3
S sulphur 0.014 Cb Columbium 0.001 Si silicon 0.22 C.E. 0.43 Cu Copper 0.37 ✓ 7440-50-8 CuNiCrMo 0.616	Mn	Mangan	iese	1.00		✓	7439-96-5	Mo Molybo	denum	0,03			
Si silicon 0.22 C.E. 0.43 Cu Copper 0.37	P	Phosph	orous	0.014				V Vanad:	ium	0.004			
Cu Copper 0.37 ✓ 7440-50-8 CuNiCrMo 0.616	S	Sulphu	ır	0,014				Cb Columb	oium .	0.001			
ou copper	Si	Silico	n	0.22				C.E.		0.43			
Ni Nickel 0.10 √ 7440-02-0 CrMo 0.146	Cu	Copper	:	0.37		✓	7440-50-8	CuNiCrMo		0.616			
	Nì	Nickel	L	0.10		✓	7440-02-0	CrMo		0.146			
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Mechanical To	esting	;	Other
Test Lab	AFG	WILL	CMC-TEXAS
Test Bar Size	Sacrificial Piece`	MHC	3026256
нвм	163 - 163		
Elg (%)	32	•	
RA (%)	64		
Tensile Specimen Size (in)	.252		
Tensile (ksi)	82.2		
Yield (ksi)	48.7	•	
Gauge Length	1	:	
Approximately and the second s			
•			
	X.		
		:	
		:	

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 B16.5-2009

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.:

219906

Certification Date:

10/4/2011

Nicholas Tepovich - Metallurgic Lab Manager

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