

Supplier Part: 3000027  
 Spec: ASTM A 105/A 105M-(05)/ASME SA 105/SA 105M-(08a) Section II Part A

Element	(%wt)	Ladle	Product	EPCRA	CAS#	Element	(%wt)	Ladle	Product	EPCRA	CAS#
C	Carbon	0.21				Cr	Chromium	0.07		✓	7440-47-3
Mn	Manganese	0.91		✓	7439-96-5	Mo	Molybdenum	0.020			
P	Phosphorous	0.011				V	Vanadium	0.001			
S	Sulphur	0.019				Cb	Columbium	0.002			
Si	Silicon	0.21				C.E.		0.400			
Cu	Copper	0.22		✓	7440-50-8	CuNiCrMo		0.39			
Ni	Nickel	0.08		✓	7440-02-0	CrMo		0.09			

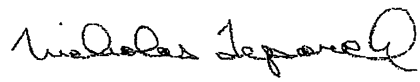
Mechanical			Other		
Test Lab		AFG	EF		Y
Test Bar Size		SACRIFICIAL PIECE			
HBW		163-163			
Elg (%)		32.0			
RA (%)		59.0			
Tensile Specimen Size (in)		0.246			
Tensile (ksi)		79.4			
Yield (ksi)		46.4			
Gauge Length		1.00			

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 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.: 155500  
 Certification Date: 12/10/2008

  
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 Nicholas Tepovich - Metallurgic Lab Manager