Material Test Report



Heat Code: YOJ

Coffer Corp.

An AFGlobal Company

13770 Industrial Rd. Houston, TX 77015

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

ISO 9001:2008 Certified

Sales Order: 140295

Line: 11

11811 NORTH FRWY STE 500

00012015 PO: 282

Item Code: 0301600101-0020F

Qty Shipped: 20

Houston, TX 77060

PLESA STEEL INC.

Item Desc: FLG 06.00 0300 WN RF STD A105

NHT COFFR

Supplier: CMC

Supplier Heat: 3048592

Spec: ASTM A105/A105M-(13)/ASME SA 105/SA 105M-(13) Section II Part A

Elen	nent	(%wt)	Ladle	Product	EPCRA	CAS#	Element	(%wt)	Ladle	Product	EPCRA	CAS#
С	Carbon	i.	0.19	,			Cr Chro	mium	0.10		✓	7440-47-3
Mn	Manganese		0.99		✓	7439-96-5	Mo Moly	bdenum	0.02			
P	Phosphorous		0.011				V Vana	dium	0.001			
S	Sulphur		0.017				Cb Colu	mbium	0.002			
Si	Silicon		0.22				C.E.		0.40			
Cu	Copper		0.26		~	7440-50-8	CuNiCrMoV		0.458			
Ni	Nickel		0.08		✓	7440-02-0	CrMo		0.117			
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Mechanical 1	esting	Other			
Test Bar Size	SACRIFICIAL PIECE	EF	Y		
HBW	163 - 174	Fully Killed	Y		
Elg (%)	26				
RA (%)	38				
Tensile Specimen Size (in)	.492				
Tensile (ksi)	80.4	1			
Yield (ksi)	47.1				
Gauge Length	2				
		1			
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Product compliant with NACE MR0175 / ISO 15156 latest edition and flange dimensions to ASME B16.5 - 2013

- * No Weld repair performed.
- * Ladle Chemical Analysis results are reported from the raw material suppliers MTR.
- * Forgings are capable of passing hydrostatic test compatible with the appropriate rating.
- * Elongation taken from a round specimen.
- * Yield strength was determined using the .2% offset method.
- * 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.
- * When reported on MTR: Tensile Testing Per ASTM E8; Brinell Hardness Per ASTM E10; Charpy Testing Per ASTM E23
- * AF Global manufactures materials according to a certified Quality Management System conforming to ISO 9001:2008 and PED 97/23/EC, Annex 1, Section 4.3

The recording of false, fictitious, or fraudulent statement or entries on this document may be punishable as a felony under federal statute.

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.:

1152406

Certification Date: 10/31/2014

Issued By:

Nancy Loos

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

Rina Sane - Metallurgical Lab Manager