

Sample Result Name	Type	Measure Date Time	Recalculation Date Time	Origin
9480(1684/D-28/2014)	Unknown	Saturday, May 24, 2014	11:22:28 AM	Measured
Method Name	Method Version	Operator Name	Check Type	Check Status
Fe-30-MO		SARA SAE	None	Not Used
Grade Verification Name	Grade Verification Similarity	Correction Type	Type Corr Sample Name	Grade Search Name
	0	None		
Grade Search Similarity	Type	Status	Outlier Removal	
0	None	Not Used		

Sample Name
9480(1684/D-28/2014)

	C	Si	Mn	P	S	Cr	Mo	Ni	Al	Co	Cu	Nb	Ti	V	W	Pb	Sn	As	Zr
	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc
1	0.053	0.48	0.77	0.053	0.033	20.56	2.71	39.64	0.061	0.13	1.61	0.049	0.72	0.068	<0.040	0.012	0.020	0.008	<0.003
2	0.048	0.46	0.79	0.052	0.027	20.66	2.63	39.73	0.058	0.12	1.63	0.049	0.69	0.067	<0.040	0.014	0.021	<0.005	<0.003
3	0.048	0.46	0.79	0.055	0.029	20.73	2.59	39.74	0.058	0.13	1.64	0.048	0.68	0.065	<0.040	0.014	0.023	0.005	<0.003
Rep	0.050	0.47	0.78	0.053	0.030	20.65	2.64	39.70	0.059	0.13	1.63	0.048	0.69	0.067	<0.040	0.013	0.021	0.006	0.003
Min Cal	0.006	0.005	0.004	0.003	0.002	0.005	0.003	0.005	0.003	0.005	0.002	0.005	0.0010	0.002	0.040	0.010	0.002	0.005	0.003
Mean	0.050	0.47	0.78	0.053	0.030	20.65	2.64	39.70	0.059	0.13	1.63	0.048	0.69	0.067	<0.002	0.013	0.021	0.006	<0.003
Max Cal	3.00	5.04	18.12	0.18	0.30	36.00	10.20	55.2	6.24	21.60	7.44	3.60	3.60	12.00	7.32	0.13	0.27	0.13	0.19

	Ca	B	Fe
	Conc	Conc	Conc
1	0.001	0.003	32.99
2	0.0008	0.003	32.90
3	0.0007	0.003	32.86
Rep	0.0010	0.003	32.92
Min Cal	0.0005	0.0005	
Mean	0.0010	0.003	32.96
Max Cal	0.016	0.025	

OK ex per 86-724
Rajeev
24/5/14



M.D. Steels Pvt. Ltd.

Plot No. F- 669 , Phase - II

RIICO Industrial Area , Bhiwadi, Distt.- Alwar (Rajasthan) 301019

Phone +91 1493 512079/225495 Fax +91 01493 222483

Email: mdsteels@gmail.com Website : www.mdsteels.com

Customer : M/s Sara Sae Pvt. Ltd. Division - II A-2, Sara Industrial Estate Ltd. Chakrata Road, Rampur - SELAQUI Dehradun - 248197 - Uttarakhand	T.C. No.	: M- 1584
	Dated	: 17.05.2014
	Heat No.	: 1684/D- 28 / 2014
	Date	: 28.04.2014

Order No. PO- 6157 Dated 19.04.2014

Specification : INC 825

Foundry identification : MD

Surface : Proof Machine

Casting Processed by Induction melting

Heat Treatment : Solution Annealed at 1060 °C, 1.30 Hours Soaking and Water Quenched

CHEMICAL COMPOSITION %

Element	C	Si	Mn	Cr	Ni	Mo	S	Al	Cu	Ti	P
Minimum	-	-	-	19.50	38.000	2.500	-	-	1.500	0.60	-
Maximum	0.050	0.500	1.000	23.50	46.000	3.500	0.030	0.200	3.000	1.20	0.030
Actual	0.046	0.430	0.181	20.70	39.100	2.850	0.018	0.056	1.960	1.10	0.014

MECHANICAL PROPERTIES

	Y.S	UTS	EL%	Reductio	Charpy At ambient	Bend Tes	Hardness				
	Mpa	Mpa	GI= 50mm	Area %	Ambient temp.		HRB				
Min											
Max.											
Actual											

S. No.	Description	Item Code	Qty.
1	Centrifugally Casted Rings OD 151 mm X ID 115 mm X H - 20 mm	II052-R	150 Nos. (01- 150)

Remarks : Visual Inspection Carried out and dimension checked and found Ok.

specification and was found to meet the requirements and also compliance to the purchase order.

Checked by
Gopal Dass

Approved by

[Signature]



M. D. STEELS (P) LTD.
F-669, Phase-II, Indl. Area
BHIWADI - 301 019.
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