

Sample Result Name	Type	Measure Date Time	Recalculation Date Time	Origin
Method Name	Method Version	Operator Name	Check Type	Check Status
Grade Verification Name	Grade Verification Similarity	Correction Type	Type Corr Sample Name	Grade Search Name
Grade Search Similarity	Type	Status	Outlier Removal	

Sample Name	Grade
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	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	0.050	0.22	0.39	0.025	0.007	22.89	3.22	38.65	0.016	0.065	1.89	0.18	0.98	0.062	<0.040	0.012	0.013	0.013	0.003
2	0.044	0.21	0.39	0.025	0.006	23.21	3.15	38.43	0.016	0.064	1.86	0.18	0.94	0.060	<0.040	0.012	0.013	0.015	0.003
3	0.049	0.22	0.40	0.025	0.006	23.14	3.12	38.44	0.017	0.065	1.90	0.18	0.96	0.059	<0.040	0.013	0.013	0.016	0.003
Rep	0.047	0.22	0.40	0.025	0.006	23.08	3.16	38.51	0.016	0.065	1.88	0.18	0.96	0.060	<0.040	0.012	0.013	0.014	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	0.047	0.22	0.40	0.025	0.006	23.08	3.16	38.51	0.016	0.065	1.88	0.18	0.96	0.060	<0.004	0.012	0.013	0.014	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	0.0009	0.002	31.26
2	0.0007	0.002	31.34
3	0.0005	0.002	31.32
Rep	0.0007	0.002	31.31
Min Cal	0.0005	0.0005	
Mean	0.0007	0.002	31.35
Max Cal	0.016	0.025	

Qualify in JW-825 as
per sec 26-724A
Dorfer

23710



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- 1898
	Dated	: 18.03.2015
	Heat No.	: 1998/ C- 13/2015
	Date	: 13.03.2015

Order dated 04.03.2015

Specification : INC 825

Foundry identification : MD

Surface : Proof Machined

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	0.040 ✓	0.380 ✓	0.192 ✓	20.20 ✓	41.300 ✓	2.740 ✓	0.013 ✓	0.048 ✓	1.800 ✓	1.02 ✓	0.012

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 286 mm X ID 260 mm X H- 38 mm	IX708-R	10 Nos. (01 -10)
2	Centrifugally Casted Rings OD 279 mm X ID 257 mm X H- 38 mm	IX882-R	15 Nos. (01 -15)

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.

Gopal Dass

Checked by

Approved by.

For M. D. Steels Pvt. Ltd.



Quality Control

*all As per
ses 26-724 A
Rohit*

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