



STEDRANT TECHNOCLINIC PVT. LTD.

(Construction Materials Testing Laboratory)

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Ref: STPL/Salt pray/BLR/568/08/ 2022
Test Order dated: 26.08.2022

Date: 01.09.2022

M/s. Somani Wires
Survey No. 42/P 16. 102/1,
Seethanayakanahalli,
Lakkur Hobli, Malur Taluk,
Kolar Dt.

TEST REPORT ON STARK STEEL SAMPLE


Source of sample : Sample supplied by the customer
Date of receipt of sample : 23.08.2022
Customer's Reference : Ltr. No.: Nil dated 23.08.2022
Project# : Not furnished
Sample Description# : Stark steel rod and
6 mm plain round bar
Solution Used : Sodium Chloride 5% W/V
pH of solution : 8.67
Relative Density : 1.028
Period of Test : 26.08.2022 – 30.08.2022 (96 h.)
Condition of samples : Satisfactory
Technical Reference : ASTM B 117 - 09 & ASTM G 31- 72

Sl. No.	Particulars	STARK STEEL SAMPLE	PLAIN ROUND STEEL SAMPLE
1	Nominal Diameter(mm)	5.22	5.98
2	Length (mm)	152	138
3	Surface Area 'A' (cm ²)	25.09	25.92
4	Initial Mass (g)	25.01	30.82
5	Solution used – Sodium Chloride 5% w/v		
6	Duration 'T'(h)	96	96
7	Final mass (g)	24.69	30.43
8	Mass loss 'W' (g)	0.32	0.39
9	Constant 'K'	87600	87600
10	Density 'D' (g/cc)	7.85	7.85
11	Corrosion rate (mm/year) = $K*W / (A*T*D)$	1.48	1.74
12	Corrosion Resistance Index (Plain Round/Stark steel)	1.17	1.00

As furnished by the customer

- Note:
1. The results relate only to the items tested.
 2. Report shall not be reproduced, except in full, without the written approval of the lab.
 3. Any correction invalidates this report.

for STEDRANT TECHNOCLINIC PVT. LTD.


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STPL Manager-Lab

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