

**Chromium**

**Nickel**

**Copper**

# THE FUTURE OF TMT REBARS

## COMBAT CORROSION WITH SURYADEV 550D CRS



Suryadev Fe550D CRS rebars are meticulously manufactured for construction projects in coastal, flood-prone, and humid regions with high acidity and salinity. They have superior strength and flexibility compared to ordinary TMT rebars. Furthermore, they provide exceptional longevity to any structure due to their corrosion, fire, and earthquake resistance properties. This is achieved by maintaining low carbon content and adding copper, chrome, and nickel. Suryadev Fe550D CRS rebars are the preferred choice of engineers as they greatly improve the structural stability of the building and minimize losses due to corrosion.

## INDUSTRY-LEADING PARAMETERS

Chemical Properties	Fe 550D CRS as per IS 1786:2008	Suryadev Fe 550D CRS
Carbon (%), max	0.15	0.15
Phosphorous (%), max	0.12	0.10
Sulphur (%), max	0.040	0.03
Alloy Elements (%), min	0.40	0.40

Mechanical Properties	Fe 550D CRS as per IS 1786:2008	Suryadev Fe 550D CRS
Yield Stress (N/mm <sup>2</sup> ), min	550	570
Ultimate Tensile Stress (N/mm <sup>2</sup> ), min	600	630
Elongation (%), min	14.5	16
TS/YS Ratio	1.08	1.10

Size (mm)	Cross Sectional Area (mm <sup>2</sup> )	Section Weight Range (kg/m)	Total Bars per Bundle
8	50.3	0.375-0.415	10
10	78.6	0.586-0.648	7
12	113.1	0.857-0.919	5
16	201.2	1.525-1.635	3
20	314.3	2.421-2.519	2
25	491.1	3.773-3.927	1
32	804.6	6.184-6.436	1



**SURYADEV ALLOYS AND POWER PRIVATE LIMITED.**

No. 497 & 498, ISANA Building, 8th Floor, Poonamallee High Road,  
Arumbakkam, Chennai - 600 106 | Ph: 044 4222 1000.