



AZ-150 "CORAL" BRANDED TECHNICAL DATA SHEET

Properties of Substrate Steel (other steel base possible on agreement)

Chemical Composition as per IS11513 ,Grade CR3	Maximum (%)
	YS550
Carbon (C)	0.06
Manganese (Mn)	0.10-0.45
Phosphorus (P)	0.03
Sulphur (S)	0.02
Silicon (Si)	0.04
Aluminum (Al)	0.02-0.07

Mechanical Properties	YS550
Yield Strength, Min (Mpa)	550
Tensile Strength, Min (Mpa)	550
Elongation on 50 mm GL (≥ 0.60 mm), %	-
Transverse Bend Test (1800 Bend)	-

Note: ASTM-792M, IS-15961, EN-10346 (Mechanical properties are guaranteed at ambient/room temperature.)

Dimension Range

Capability (Base metal)	Minimum	Maximum
Thickness Range (mm)	0.30	1.20
Width Range (mm)	1220	1440

- a) Specific requirement is possible on agreement
- b) Other dimensions and shape tolerances as per ASTM A 924M & IS 16163/EN 10143



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Paint Line Tested Properties of Top Coat

Property	Measured By	Test Method	Results
Alu-Zinc Coating	GSM	ASTM A90 M	150 GSM Min
Paint Type	-	-	SDP
Film Thickness	Microns	ASTM D 523 / IS 101-Part 4/ EN 13523-2	25 (±)2 Including Primer or As Per Requirements
Color Matching	ΔE CIE Lab	IS 15965 (Clause 9.2)/EN 13523-3/ ASTM D 2244	Visual Match
Specular Gloss	60°	ASTM D 523 / IS 101-Part 4/EN 13523-2	Nominal (±5) unit
Hardness	Pencil	IS 15965/EN 13523-4	HB or Harder
Adhesion	Reverse Impact	IS 15965(Annex B)/EN 13523-5	≥ 10 Joules
Flexibility	T - Bend	IS 15965(Annex A)/ EN 13523-7/ASTM D 4145	Maximum 4T (no cracking)
Cross Hatch	1 mm Square 100mm Squares	ISO 2049	No Tape Off
Adhesion after indentation	Cupping Test (mm)	ASTM E 643 /EN 13523-6	As Per Thickness Chart
Resistance to Solvents	Double Rub(DR)	ASTM D 4752/EN 13523-11	(Min 100 DR Pass) No Discoloration or blistering
Resistance to Scratching	Kg	ASTM D 7027/EN 13523-12	(Min 1.5 Kg Pass)
QUV Weathering Test	QUV (1500 hours)	ASTM G 154/EN 13523-10	ΔE CIE Lab ≤ 5 units
Resistance to corrosion	Salt Spray (1000 hours)	IS 15965(Annex D)/ASTM B 117/ EN 13523-8	Blister density: ≤ 2 Blister size: ≤ S3 Undercut from a score ≤ 2 No loss of adhesion or corrosion
Resistance to humidity	1000 hours	ASTM D 2247/EN 13523-25	Blister density: ≤ 3 Blister size: ≤ S2 No loss of Adhesion or Corrosion
Resistance to chalking	1500 hours	ASTM D 4214/EN 13523-14	Chalk Rating: ≤ 4
Resistance to abrasion	Scratch	EN 13523-16	Typically 2000 g