



AZ-150 BRANDED TECHNICAL DATA SHEET

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

Chemical Element	Guaranteed Maximum (%)				
	S550GD*/550/YS550	S350GD/YS350	340 Class2	YS300	S250GD/YS250
Carbon (C)	0.2	0.25	0.25	0.25	0.2
Manganese (Mn)	1.2	1.6	1.35	1.6	1.2
Phosphorus (P)	0.04	0.05	0.04	0.05	0.04
Sulphur (S)	0.03	0.035	0.04	0.035	0.03

Mechanical Property	Guaranteed Minimum				
	S550GD*/550/YS550	S350GD/YS350	340 Class2	YS300	S250GD/YS250
Yield Strength, MPa.	550	350	340	300	250
Tensile Strength, MPa.	570	420	-	340	320
Elongation on 80 mm GL (≥ 0.60 mm), %	2	14	12	18	20
Transverse Bend Test (180° Bend)	-	t	-	2t	t

Note: ASTM-792M, IS1-5961, EN-10346 (Mechanical properties are guaranteed at ambient/room temperature.)

Dimension Range & Tolerances

Base Metal Thickness (mm)			Width (mm)	
Range	Tolerance		Range	Tolerance
	Width ≤ 1200	Width > 1200		
0.03 - 0.50	± 0.03	± 0.04	< 900 (in slit edge)	+2 / -0
0.51 - 0.80	± 0.04	± 0.05	914 - 1000	+4 / -0
0.81 - 1.2	± 0.05	± 0.06	1001 - 1220	+5 / -0
> 1.20	± 0.06	± 0.07		

- Specific requirement is possible on agreement
- Other dimensions and shape tolerances as per ASTM A 924M & IS/ISO 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	-	-	SMP
Film Thickness	Microns	ASTM D 523 / IS 101-Part 4/ EN 13523-2	25 (\pm)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 (\pm 5) unit
Hardness	Pencil	IS 15965/EN 13523-4	HB or Harder
Adhesion	Reverse Impact	IS 15965(Annex B)/EN 13523-5	\geq 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 (1000 hours)	ASTM G 154/EN 13523-10	ΔE CIE Lab \leq 5 units
Resistance to corrosion	Salt Spray (1000 hours)	IS 15965(Annex D)/ASTM B 117/ EN 13523-8	Blister density: \leq 2 Blister size: \leq S3 Undercut from a score \leq 2 No loss of adhesion or corrosion
Resistance to humidity	1000 hours	ASTM D 2247/EN 13523-25	Blister density: \leq 3 Blister size: \leq S2 No loss of Adhesion or Corrosion
Resistance to chalking	1000 hours	ASTM D 4214/EN 13523-14	Chalk Rating: \leq 4
Resistance to abrasion	Scratch	EN 13523-16	Typically 2000 g