

Electrolytic Tinplate and Tin Free Steel

Tin mill products include electrolytic tinplate, electrolytic chromium coated steel (also referred to as tin free steel or TFS), and black plate, the uncoated steel.

Tinplate is a thin steel sheet coated by tin, while TFS is an electrolytic chrome plated steel consisting of a thin layer of chromium and a layer of chromium oxide deposited on the steel base. Both of them have a metallic luster as well as excellent properties in corrosion resistance and paintability.

The annual output for these products is of 1.2 million tons. Baosteel's tin mill products are sold and used throughout the world in application of packaging of food, beverage and industrial goods.

Steel type

Steel grade	Characteristics	Products
MR	Base steel low in residual elements that has excellent corrosion resistance, used in general applications.	ETP, TFS
L (only for JIS and BQB standards)	Base steel extremely low in residual elements such as Cu, Ni, Co, and Mo that has excellent corrosion resistance to certain types of food products	ETP, TFS
D (only for JIS and BQB standards)	Aluminum-killed base steel used in applications involving deep drawing or other types of severe forming that tend to give rise to Lueder's lines	ETP

Typical size range

	Temper	Nominal Thickness (mm)	Nominal Width (mm)
SR-BA Single reduced - Batch annealing	TS245, T-2BA	0.22 - 0.50	700-960
		0.18	700-820
		0.19	700-860
	TS260, TS275 T2.5BA, T-3BA	0.20	700-900
		0.21	700-920
		0.22 - 0.23	700-940
		0.24 - 0.50	700-960
DR-CA Double reduced - Continuous annealing	TH520, DR520, DR7M	0.15	700-880
		0.16	700-920
		0.17	700-940
		0.18	700-950
		0.19 - 0.28	700-970
	TH550, DR 550, DR8	0.29 - 0.40	800-970
		0.15	700-920
		0.16	700-940
		0.17 - 0.26	700-970
		0.27 - 0.38	800-970
		0.15	700-940
TH580, DR 580, DR8M	0.16 - 0.25	700-970	
	0.26 - 0.36	800-970	
	0.15	700-940	
TH520, DR 620, DR9	0.15 - 0.23	700-970	
	0.24 - 0.34	800-970	

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SR-CA
Single reduced -
Continuous
annealing

Temper	Nominal Thickness (mm)	Nominal Width (mm)
T-55CA, T2.5CA	0.22	700-880
	0.23-0.26	700-1050
	0.27-0.45	700-1150
	0.46-0.55	900-1150
T-3CA, T-57CA	0.18-0.19	700-840
	0.20-0.21	700-880
	0.22	700-940
	0.23-0.26	700-1050
	0.27-0.35	700-1150
	0.36-0.45	800-1150
T-3.5CA, T-59CA	0.46-0.55	900-1150
	0.20-0.22	700-900
	0.23-0.32	700-1050
T-4CA, TH415	0.33-0.50	800-1050
	0.18-0.22	700-1050
	0.23-0.26	700-1150
T-5CA, TH435	0.27-0.36	700-1080
	0.17-0.22	700-1050
	0.23-0.26	700-1150
	0.27-0.29	700-960
	0.30-0.50	800-980
T-2.5CA, T-3CA (IF)	0.26-0.50	800-1000

Other specifications available upon request.

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