

1.SPECIFICATION

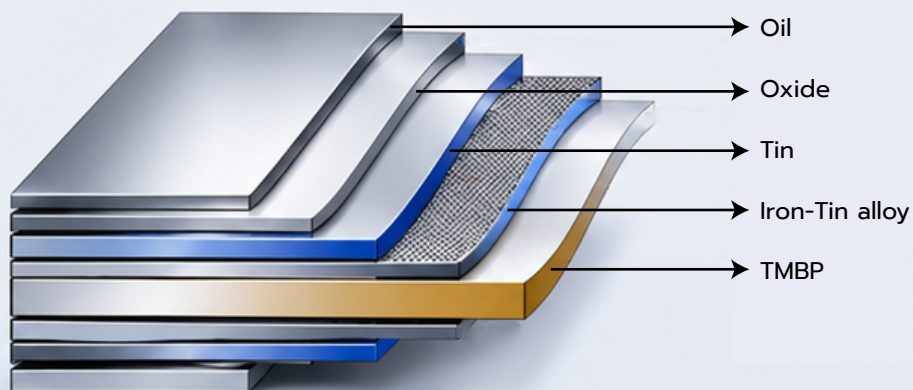
Product Specification & Available Sizes

Group 1: Tinplate and Tin Free Steel

1. Product Types

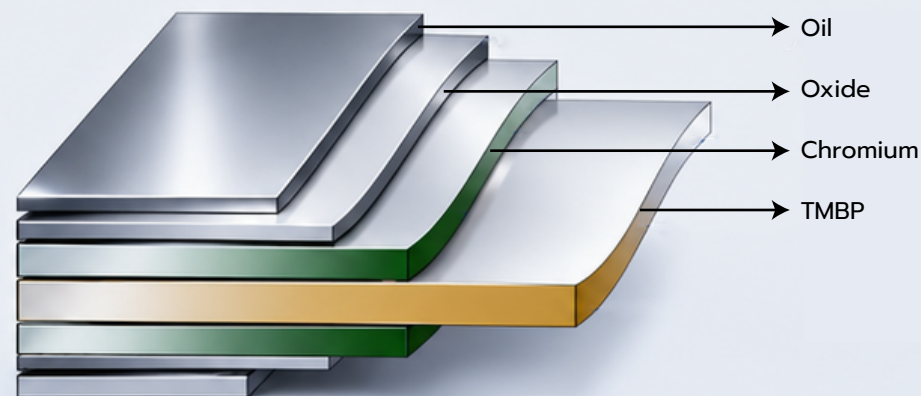
1.1 Tinplate

Tinplate is made of Tin Mill Blackplate coated with tin by electrolytic tinplating process.



1.2 Tin Free Steel (TFS)

Tin Free Steel is made of Tin Mill Blackplate coated with chromium / chromium oxide by electrolytic chromium plating process.



2.Coating Weight

2.1 Tinplate

Type	Coating Designation		Nominal Coating weight	Minimum Coating weight
			(g/m ²)	(g/m ²)
Equally Coated Weight	#10	(1.1/1.1)	1.1/1.1	0.9/0.9
	#25	(2.8/2.8)	2.8/2.8	2.45/2.45
	#50	(5.6/5.6)	5.6/5.6	5.05/5.05
	#75	(8.4/8.4)	8.4/8.4	7.55/7.55
	#100	(11.2/11.2)	11.2/11.2	10.1/10.1
Differentially Coated Weight	#25/10	(2.8/1.1)	2.8/1.1	2.45/0.9
	#50/25	(5.6/2.8)	5.6/2.8	5.05/2.45
	#75/25	(8.4/2.8)	8.4/2.8	7.55/2.45
	#75/50	(8.4/5.6)	8.4/5.6	7.55/5.05
	#100/25	(11.2/2.8)	11.2/2.8	10.1/2.45
	#100/50	(11.2/5.6)	11.2/5.6	10.1/5.05
	#100/75	(11.2/8.4)	11.2/8.4	10.1/7.85

2.2 Tin Free Steel

Layer	Average Coating Weight (mg/m ²)
Metallic Chromium	50–150
Hydrated Chromium Oxide	5–35

Note

- Coating weight corresponds to JIS G 3303 and JIS G 3315 for Tinplate and Tin Free Steel respectively.
- Value in front of slash (/) is for top of surface and value behind slash is for bottom of surface.
- Differential mark will normally be presented on heavily coated side or according to customer's requirement.
- Higher or lower coating weight is available upon request.

3. Surface Finished

3.1 Tinplate

	Classification	Feature
Single Reduced	Bright	A high luster surface provided by a fine smooth finished steel substrate.
	Stone	A luster surface provided by a smooth finished steel substrate.
	Silver	A neutral metallic surface provided by a coarse finished steel substrate.
	Matte	A dull surface provided by a coarse finished steel substrate.
Double Reduced	Stone	A luster surface provided by a smooth finished steel substrate.

3.2 Tin Free Steel

	Classification	Feature
Single Reduced	Bright	A smooth surface with a fine grit line pattern.
	Stone	A surface with a grit line pattern.
	Matte	A dull surface.
Double Reduced	Stone	A surface with a smooth finished surface.

4. Temper

Temper Grade of SR Tinplate and SR Blackplate

	Aiming Rockwell Hardness 30 T		
	Thickness t (mm)		
	t ≤ 0.210 mm	0.210 < t ≤ 0.280 mm	0.280 < t
T1	50 ±4	49 ±4	48 ±4
T1.5	52 ±4	51 ±4	50 ±4
T2	54 ±4	53 ±4	52 ±4
T2.5	56 ±4	55 ±4	54 ±4
T3	58 ±4	57 ±4	56 ±4
T3.5	60 ±4	59 ±4	58 ±4
T4	62 ±4	61 ±4	60 ±4
T4.5	64 ±4	63 ±4	62 ±4
T5	66 ±4	65 ±4	64 ±4
T5.5	68 ±4	67 ±4	66 ±4

Temper Grade of DR Tinplate and DR Blackplate

Designation of temper Grade	Rockwell Hardness 30T
DR 7.5	71 ±4
DR 8	72 ±4
DR 8.5	73 ±4
DR 9	75 ±4
DR 9M	76 ±4
DR 10	79+3 , 79-4

5. Sizes

		Sheet			Coil		
		Normal Size		Capable Size	Normal Size		Capable Size
		(SR)	(DR)		(SR)	(DR)	
Thickness	(mm)	0.17–0.40	0.14–0.30	0.15–0.50	0.17–0.40	0.14–0.30	0.15–0.50
Width	(mm)	690–965		457–1016	690–965		457–1016
Length	(mm)	457–1036		457–1200	–		–
Coil Weight	(mm)	–		–	11 Max		
Coil Inside Diameter (Nominal)	(mm)	–		–	406 / 420 / 508		see Note

Note : Other sizes except normal size, please inquire us in advance.

6. TMBP Type

Steel Grade	Characteristic
MR	Base steel, low residual elements, that has high corrosion resistance and is widely used in general applications such as containers.
L	Base steel, extremely low in residual elements such as copper (Cu), nickel (Ni), chromium (Cr) and molybdenum (Mo), that has excellent corrosion resistance and is used for containers.
D	Aluminium killed base steel used for applications involving deep drawing or other types of severe forming that tend to give rise to Lüder's lines.