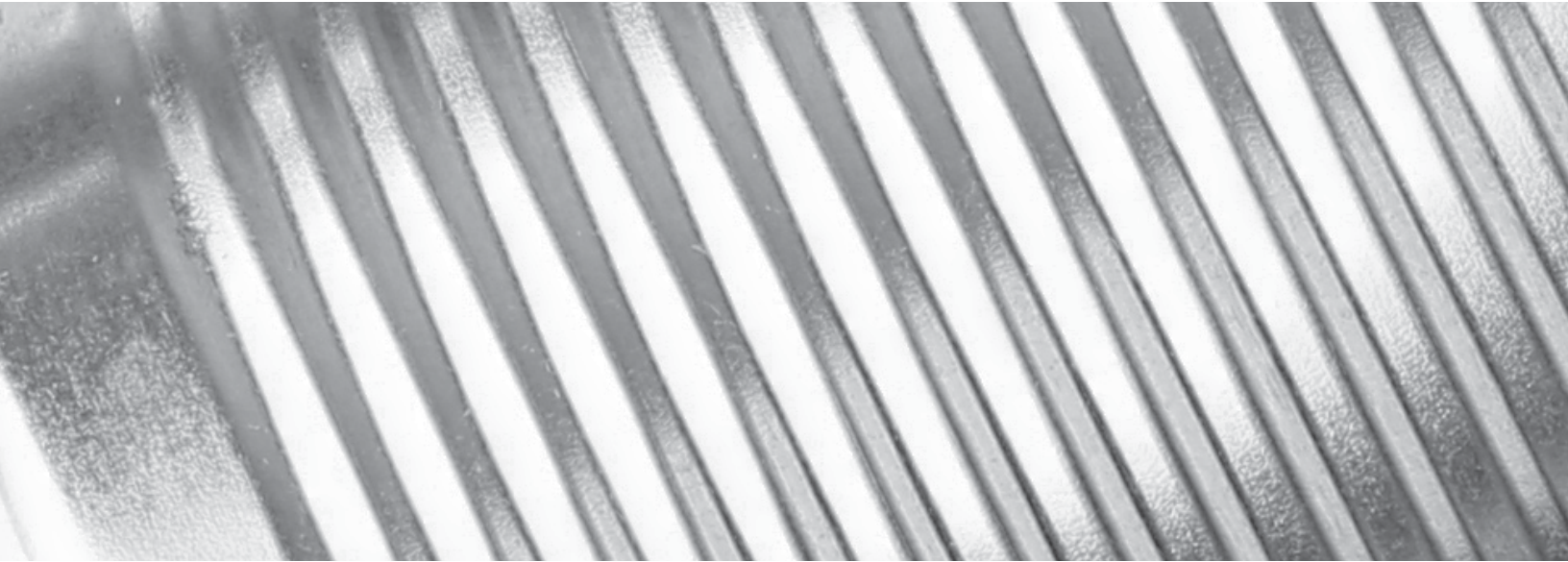




ELECTROLYTIC TIN COATED AND CHROME COATED SHEET

PRODUCT BOOK



Suggestions for Buyers

We call your attention to the following items which, when shown on your orders, will expedite entry, production and shipment. Specifications beyond stated limitations are subject to inquiry

Unit of Quantity	Specify quantity weight in pounds or net tons.
Steel	Carbon – maximum 0.13; Manganese – maximum 0.60.
Customer Application	Specify the name of the part, e.g. “locker back,” “cabinet door,” “pail body,” etc. General terms, such as “cabinets” or “pails”, prevent us from establishing suitable mill processing and quality control parameters. (Samples of parts are desirable.)
Coils	Inside diameter: (16.5" standard; 20" maximum). Maximum coil weight. Maximum outside diameter. Acceptable number of welds. No welds are subject to price extra. On no weld orders, minimum coil weight cannot be greater than 50% of maximum coil weight.
Method of Packing	Eye vertical on skids – standard; inquire for other methods. Tail end direction - clockwise or counterclockwise. Eye horizontal – paper wrapped.
Method of Transportation	Rail or truck If rail, name of delivering carrier and any restrictions such as maximum car length, etc. If truck, any specific equipment necessary, method of unloading (forklift tractor, overhead crane with “C” hook), whether side or rear unloading, etc.; also receiving days, unloading hours.

Any question you may have concerning this product should be directed to your Account Manager.

Electrolytic Tin Coated Sheet – Options

BASE METAL FINISH

- a. 5C shot blast (matte)
- b. 7C stone – reflowed tin coatings 0.018” max thickness
- c. Other – inquire

SURFACE TREATMENT

- a. Cathodic Sodium Dichromate (CDC)
- b. Sodium Dichromate dip (SDCD)

OILING

- a. Acetyl Tributyl Citrate (ATBC)

STEEL

- a. Carbon – Maximum 0.13; manganese – maximum 0.60
- b. NOTE: Only aluminum killed continuous cast steels are available

QUALITIES

- a. Commercial Steel (CS)
- b. Drawing Steel (DS)

Limitations

TIN COATING WEIGHTS

- No .05, No. 10, No.15, No. 20, No. 25, No. 50. No. 75 (unreflowed coating only)
- No. 100 (unreflowed coating only)
- Other coatings - inquire

Nominal thickness	Minimum width	Maximum width
.015" – .025" incl. (CS, DS)	29.5"	37.5
>.025" inquire		

Tolerances

Thickness	
Specified Gauge	Thickness Tolerance
.0150" – .0200"	+/- .002"
.0201" – .0250"	+/- .003"

Thickness is measured at any point across the width not less than 1" from a side edge.
 Restricted tolerances – inquire.

Width	
Specified width	Tolerance over specified width No tolerance under
Up to 30" incl.	.125"
Over 30"	.1875"

Electrolytic Chrome Coated Sheet – Options

FINISH

- a. 5C (shot blast)
- b. 7C stone – reflowed tin coatings 0.018” max thickness
- c. Other – inquire

OILING

- a. Acetyl Tributyl Citrate (ATBC)
- b. Butyl Stearate (BSO) - inquire

STEEL

- a. Carbon – maximum 0.13; manganese – maximum 0.60
- b. NOTE: Only aluminum killed continuous cast steels are available

QUALITIES

- a. Commercial Steel (CS)
- b. Drawing Steel (DS)

Limitations

Nominal thickness	Minimum width	Maximum width
.015” – .0190” Incl. (CS, DS)	29.5"	37.5

Tolerances

Thickness	
Specified Gauge	Thickness Tolerance
.0150” – .0190”	+/- .002”

*Thickness is measured at any point across the width not less than 1" from a side edge.
Restricted tolerances – inquire.*

Width	
Specified width	Tolerance over specified width No tolerance under
Up to 30" incl.	.125"
Over 30"	.1875"

About Cleveland-Cliffs Inc.

Cleveland-Cliffs is the largest flat-rolled steel producer in North America. Founded in 1847 as a mine operator, we are also the largest producer of iron ore pellets in North America. In 2020, we acquired two major steelmakers, AK Steel and ArcelorMittal USA, vertically integrating our legacy iron ore business with quality-focused steel production and emphasis on the automotive end market. Our fully integrated portfolio includes custom-made pellets and hot briquetted iron (HBI); flat-rolled carbon steel, stainless, electrical, plate, tinplate and long steel products; as well as carbon and stainless steel tubing, hot and cold stamping and tooling. Headquartered in Cleveland, Ohio, we employ approximately 25,000 people across our mining, steel and downstream manufacturing operations in the United States and Canada.



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All information in this brochure is for the purpose of information only. Cleveland-Cliffs reserves the right to change its product range at any time without prior notice.