A service designed to help optimize business and operational decisions through detailed and comprehensive tinplate production cost analysis.
Our quarterly report provides in-depth and detailed tinplate production cost analysis.

Our quarterly Tinplate cost production service offers:

- Detailed breakdown of the costs to produce one ton of tinplate in every stage of the production process from raw materials to final tinplate product.

- Understanding the impact that raw material variations have on the tinplate production costs. For example: iron ore, coking coal, cold rolled, energy cost, etc.

- The ability to compare production costs of 51 tinplate plants around the world, at any stage of the production process, including a complete range of cost classifications: raw materials, labor, energy, reductants, and capital charges.

- The capability to calculate the variation of the production cost since your last tinplate purchase.

Harbor intelligence, in conjunction with independent consultant James King, provides this information in a quarterly basis report which is presented in a very simple to use and easy to understand format.
The tinplate cost service is provided through a report that has the information arranged in an easy-to-understand approach.

The report allows you to compare the total tinplate production cost (fob) of one ton of tinplate of the most important tinplate mills around the world (51 tinplate plants).

Access plant by plant detailed data on tinplate production cost breakdown including raw materials, energy, reductants, labor, capital charges, and cold-rolled steel to tinplate conversion cost. The cost classification has detailed input breakdown, which includes the amount of each input used to produce a ton of tinplate, as well as the specific cost of each input. The report also includes a one-year production cost forecast for each cost classification, as well as the most important items in each cost classification. The forecast is supported by a main-driver analysis for the tinplate market.

The service also includes information in excel format so that you can modify it and adapt it to your specific needs. The excel format allows you to easily compare the competitive position of any of the 51 plants, at all stages of the production process from raw materials to tinplate steel product.
## Introduction

### I. Methodology

A general description of the methodology used to calculate tinplate production costs. For comparability of analysis all plants are assumed to produce tinplate of 0.21 mm thickness with tin coating 2.8 grams per square meter each side.

### II. Evolution of Key International Prices for Steel Production Costs

A detailed evolution of key steelmaking raw materials and input prices. Includes the following:

- Crude oil
- Fuel oil
- Steam coal
- Coking coal
- Coke
- Sinter fines
- Blast furnace pellet
- DRI

- Pig iron
- Scrap
- Billet
- Slab
- Plate
- HR coil
- CR coil
- Exchange rate

### III. Production Cost Comparative

A visual tool that enables you to compare the total tinplate production cost (fob) of one ton of tinplate of the most important tinplate mills around the world (51 tinplate plants). It also includes a cost comparative analysis that highlights the competitive structure of the tinplate industry.

### IV. Tinplate Production Cost Analysis by Plant (includes 39 tinplate plants)

#### 1. Tinplate Production cost Analysis parting from crude steel

1.1 Tinplate Cumulative Cost Summary (USD per tonne of tinplate produced)

   i. Tinplate production cost structure by:
      - Raw Materials
      - Energy & Reductants
      - Labor & Overheads
      - Capital Charges

1.2 Tinplate Production Cost in Detail (Units and cost per tonne of tinplate produced)

   i. Capital Charges
      - Interest
      - Depreciation
   ii. Labor & Overheads
      - Direct labor cost
      - S.& G.A. cost
      - Refractories
      - Mill rolls
      - Among others
   iii. Energy & Reductants
      - Coking coal
      - BF coke - purchased
      - BF charcoal - purchased
      - Thermal energy
      - Among others
   iv. Raw Materials
      - Iron ore (lump/fine/pellets)
      - Scrap
      - Semis-purchased
      - Acid cost
      - Lubricants
      - Among many others

#### 2. Cost analysis parting from Cold Rolled (Non integrated plants)

2.1 Tinplate Production Cost Summary (from CR coil; USD per tonne of tinplate produced)

   i. Tinplate production cost structure by:
      - Raw Materials
      - Energy & Reductants
      - Labor & Overheads
      - Capital Charges

2.2 Tinplate Production Cost in Detail (from CR coil; units and cost per tonne of tinplate produced)

   i. Fixed Capital Charges
      - Depreciation charge
      - Long-term interest
   ii. Working Capital Charges
      - Short-term interest rate
   iii. Labor & Overheads
      - Plant labor cost
      - S.& G.A. cost
      - Other main. supplies cost
      - Tax/insurance cost
   iv. Energy & Reductants
      - Gas cost
      - Steam cost
      - Heat recuperation credit
      - Power cost
   v. Raw Materials
      - CR coil cost
      - (integrated/purchased)
      - Tin cost
      - Chrome cost
      - Acid cost
      - Among others

#### 3. Plant Cost/Price Factors

i. Local currency
ii. Exchange rate

#### 4. Technical characteristics of tinplate plant

- No. of passes -temper mill
- Yield
- Line speed
- Line time per CR coil
- Coil change time
- Average feed per hour
- Among many others
The report includes information of the following plants:

AHMSA: Monclova
Anshan: Anshan
ArcelorMittal Temirtau: Temirtau
ArcelorMittal: Aviles-Verina
ArcelorMittal: Basse-Indre
ArcelorMittal: Etxebarri
ArcelorMittal: Florange
ArcelorMittal: Hamilton
ArcelorMittal: Liege
ArcelorMittal: Vanderbijlpark
ArcelorMittal: Weirton
Baosteel: Shanghai
China CR + tinplate: typical small
CSN: Volta R.
Dongbu Steel: Dangjin (Asan Bay)
Dongbu Steel: Incheon
Erdemir: Eregli
GPT Steel: Gandhidham
HBIS Serbia: Sabac
Ilva SpA: Genova
JFE - Kawasaki: Chiba
JFE-NKK: Fukuyama
Jiangyin Comat: Jiangyin
Magnitogorsk: Magnitogorsk
Mobarekeh Steel Co: Mobarakeh
Nippon Steel:Yawata/Tobata

NSSMC: Hirohata
NSSMC: Nagoya
Ohio Coatings: Yorkville
Perstima: Binh Duong
Perstima: Pasir Gudang
SAIL: Rourkela
Shanghai Meishan: Nanjing
Shougang Jingtang: Caofeidian
Siam Tinplate: Map Ta Phut
Sidor: Puerto Ordaz
Tata Steel: Ijmuiden
Tata Steel: Jamshedpur
Tata Steel: Llanelli
TCC Steel: Pohang
Ternium Siderar: S-Nicolas
Thai Tinplate: Samut Prakan
ThyssenKrupp Rasselstein: Andernach
Ton Y: Tainan
Toyo Kohan: Kudamatsu
US Steel Kosice: Kosice
US Steel: Gary
US Steel: Indiana Hbr.
USS-POSCO: Pittsburg
WISCO-NSSMC: Wuhan

VI. Excel spreadsheet

The service also includes the data used in the report in excel format so that you can modify it and adapt it to your specific needs. The excel format allows you to easily compare the competitive position of any of the 51 tinplate plants, at all stages of the production process from raw materials to tinplate steel product.
Why Us?

HARBOR intelligence has proven to be a pioneer and leader in tinplate market analysis and information supplier. At HARBOR we have the commitment to offer a service with the highest standard, where our main interest is to provide our clients with unparallel support to help them achieve optimal decision-making.

For prices and other subscription details:

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