

FORUS GROUP

Forus Group provides products and services that benefit society and we grow in partnership with our customers and partners



Introduction

Forus Group is a globally integrated enterprise with the headquarter in HONG KONG (HongKong Forus LTD, 2010) and branches in China (Shanghai Forus Metal Materials LTD.), Australia (Forus Australia PTY LTD) and Russia (LLC FORUS). We are committed to supplying premium steel product, metal coating/printing ink, metal packaging production systems and steel processing equipment worldwide. Strategic partnership with World leading manufacturers and service providers shapes our competitive advantage in supplying best quality product and service to our customers. Flexibility, innovation, collaboration and communication underpin Forus's principal imperative, which is **Providing One-stop, Customized and Comprehensive service for our product to our customers.**

FORUS GROUP provides prepurchase service

- We provide detailed instruction data and standards of the manufacture's steel products.
 - We service our clients with instructions on correct selection of material.
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FORUS GROUP provides on-purchase service

- We provide order tracking information to ensure punctual goods delivery.
 - We perform sample inspection and make sure that the production is conducted in compliance with the contract.
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FORUS GROUP provides after sales service

- We provide clients with online query for certificated quality level.
- We provide clients with advisories for various problems met during the application.

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○ FILM – LAMINATED STEEL

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FILM – LAMINATED STEEL

Laminated Steel is environment-friendly packaging material which is made of the multi-polymer film and the steel base, the steel trip such as TFS(Tin Free Steel) or ECCS(Electrolytic Chrome Coated Steel), electrolytic tinplate and cold rolling steel is combined with resin such as polyethyleneterephthalate (PET), polypropylene(PP) by heating and melting. Laminated Steel can preserve food effectively with excellent merits in corrosion resistance, forming, lacquering, and so forth.

List of Products

TFS-Based Film-Laminated Steel	Single Reduced TFS-Base Film-Laminated Steel
	Double Reduced TFS-Base Film-Laminated Steel
Tinplate-Based Film-Laminated Steel	Single Reduced Electrolytic Tinplate-Base Film-Laminated Steel
	Double Reduced Electrolytic Tinplate-Base Film-Laminated Steel

Note:

Baosteel Film-Laminated Steel is classified into 4 sub groups as follows.

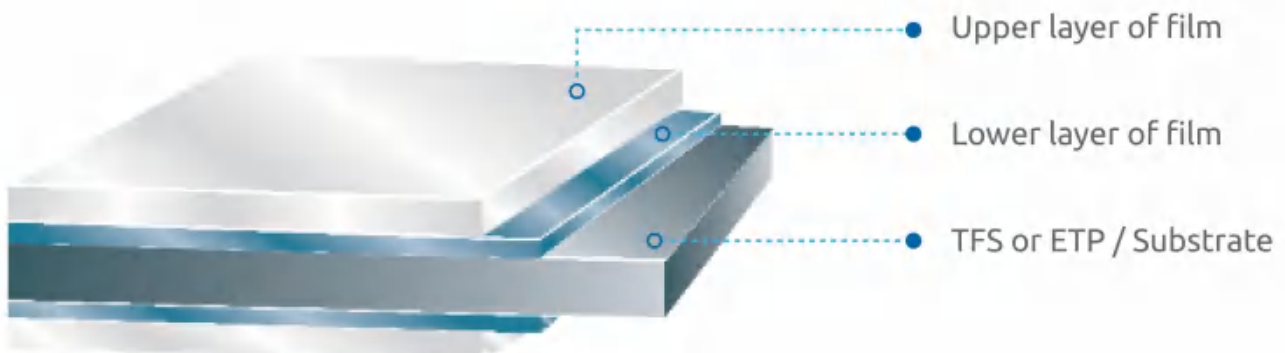
BFG stands for General Film-Laminated Steel

BFE stands for Film-Laminated Steel with High Elongation

BFA stands for Film-Laminated Steel with High Adhesion

BFX stands for Film-Laminated Steel with Special and High Requirement

Product / Film Structure



Features

01 Advantages Of Laminated Steel

- Free from toxic/Food Safety: Keeping food hygienic and safe because of the film constituting no hazardous substance and the process without the adhesive and solvent.
- Environment-friendly: No solvent and exhaust emission without coating and curing process, accordingly there is less pollution and energy consumption.

02 Product Performance

- Excellent Barrier: The immutable and stable film as an excellent barrier layer can separate the corrosive substance from steel base, thereby preserving food better during shelf life.
- Excellent Formability: The film with higher strength and elongation and wear-resisting significantly improves on the complicated formability of laminated steel.
- Excellent Printability: The film with excellent adhesion to ink makes printing convenient, and enhances color fastness and vividness and brilliant appearance.

03 Technology Characteristics

- Complete manufacturing Process, steelmaking, hot rolling, cold rolling and TFS or ETP lines, the base steel for laminating covers TFS, ETP and CR plate.
- Autonomous integration technology, film fabrication, laminating process, equipment technology, and application research, contributing to the excellent properties of products.
- Online Quality Control, online pinhole detector monitoring film quality, and with online laminating temperature controller exerting precise adjustment, so that the excellent properties and quality steadiness of products is guaranteed.

▾ Applications

Our laminated steel can be used as packaging material not only for food and beverage but also for chemicals such as oil, paint, polisher, spray agent. It is liable to be shaped into can bodies and accessories including DRD (Draw & redraw) can, DWI (Draw-Wall-Iron) can, twist off cap, EOE(Easy-Open-End), top ends, other 2-piece can bodies, and so forth.

▮ DRD Can



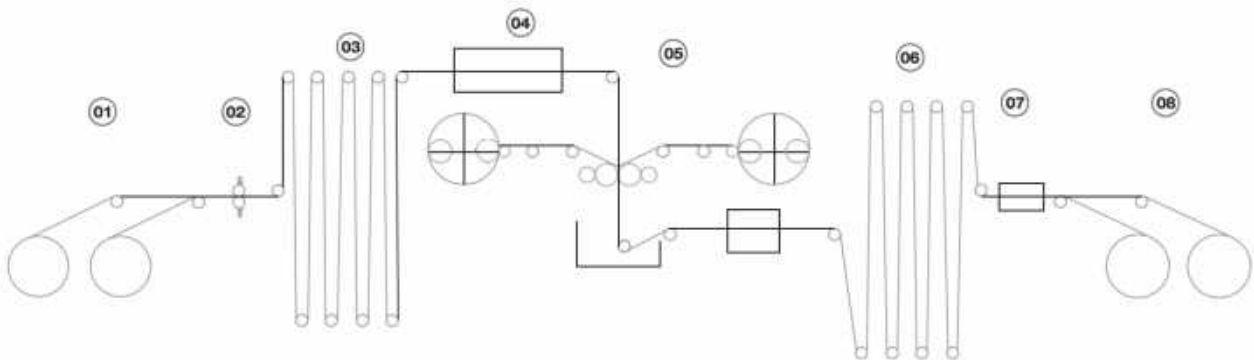
▮ Top or bottom End



▮ Easy Open End



Manufacturing Process



01 Uncoiler

03 Entry

05 Laminating

07 Wax

02 Welder

04 Looper Heating Unit

06 Section Exit Looper

08 Coating Coiler

Available Specification and Size

01 Available Size

■ TFS-Based Film-Laminated Steel

Steel Base	Nominal Gauge	Nominal Width	Nominal Length (for Sheets)
SR	0.17~0.38mm	700~1200mm	500~1168mm
DR	0.14~0.36mm	700~970mm	

■ Tinplate-Base Film-Laminated Steel

Steel Base	Nominal Gauge	Nominal Width	Nominal Length (for Sheets)
SR	0.17~0.38mm	700~1200mm	500~1168mm
DR	0.14~0.36mm	700~970mm	

02 Temper Grade

Steel Base	Continuous Annealing
SR	T-1.5, T-2.5, T-3, T-3.5, T-4, T-5
DR	DR-7M, DR-8, DR-8M, DR-9

03 Film Thickness and Color

Film	Nominal Thickness of Single Side
Clear	12~30 μ
White	
Golden	

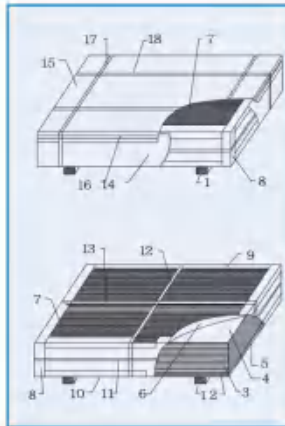
04 Lubricating

- There is food grade wax on surface of product unless otherwise agreed.

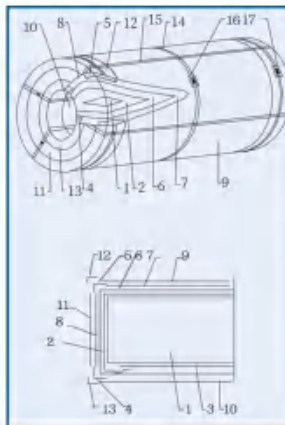
Instruction and Precaution

- Due to softness of film, please take action to prevent it from scratch during delivery.
- Due to the performance variation, please put it into production as soon as receiving the goods.
- Due to the moisture damaging to the laminated steel , please use up the unpacked material as soon as possible.

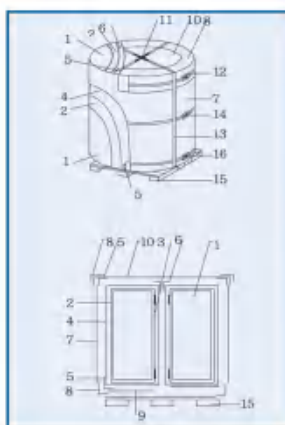
▶ Packaging And Marking



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|-----------------------------------|---|--|
| 01 wood bracket | 07 corrugated paper side | 13 13 vertical banding strip (inner) |
| 02 bottom cover | 08 corner guard top corner | 14 grad plate |
| 03 steel sheet top | 09 guard | 15 steel package box |
| 04 cover | 10 bottom corner guard circumferential | 16 circumferential banding strip(outer) |
| 05 bottom corrugated paper | 11 banding strip(inner) | 17 horizontal banding strip(outer) vertical |
| 06 rust-proof paper top | 12 horizontal banding strip (inner) | 18 banding strip(outer) |



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Feasible In Coils And Sheets , Coil Packed Eye To The Sky Or Eye To The Wall.

A Label That Indicates The Manufacturing History Is Affixed To The Outside Of The Packaging. In Addition, A Service Card Is Contained Inside.

With Regard To Types Of Packing And Markings, Please Consult Us.

▶ Product Standard or Protocol

- Orders are in accordance with the technical agreement numbered as BKJ16-915-601.

▶ Requested Information of order or Inquiry

- Product name
- Product standard or Technical Protocol
- Temper grade
- Specification and tolerance of steel base(Including thickness, width, inside diameter of coil, length of sheets, etc)
- Thickness and color of film
- Lubricant weight
- Weight
- Packaging
- End Use
- Type of content



Please contact us to get more information

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