

Advantica® GM

A pre-finished steel product developed for the manufactured goods market

Applications

- Used in a wide range of applications for manufactured goods.

Characteristics

- Medium gloss level with a smooth surface appearance.
- Good corrosion resistance.
- Wide range of colours.

Substrates available

- Hot-dip Galvanised to EN 10346.
- Cold reduced to EN 10130.

Options

- Alternative backing coats available.
- Protective film.
- Antistatic properties.
- Available with Foodsafe.
- Available with marine certificate.

Advantica® working with you

The Advantica® brand provides a range of pre-finished steel products specially formulated for manufactured goods and widely used for diverse applications. The Advantica® product range is available in a wide range of colors, with solid or metallic effects as well as bespoke finishes tailored to individual needs. With continuous investment in research and development Tata Steel constantly update the product portfolio to ensure that they can meet the requirements of the manufactured goods sector.

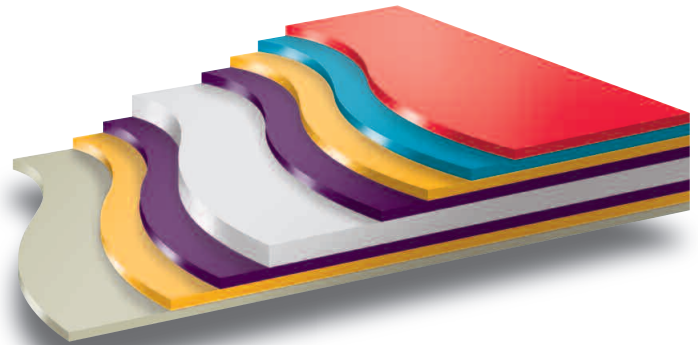
Tailored solutions and services

For any customized requirements, Tata Steel can meet your needs with shorter lead times, flexible quantities and further processing. Our technical support team is on hand to help you to define:

- The best solution in view of the application and the manufacturing process.
- The precautions to be taken regarding the end use of this product.

For further information, please visit www.tatasteelconstruction.com

Product structure



Key

■ Topcoat	■ Primer	■ Surface treatment
■ Metallic coating	■ Steel	■ Backing coat

Advantica® GM

Product testing

To ensure the integrity of the Advantica® products, Tata Steel uses laboratory tests to measure their performance against corrosion, chemicals and abrasion. All testing of products is carried out to international standards.

Forming and processing

The Advantica® products can be formed and processed with various techniques including: cutting, shearing, notching, piercing, slitting, press braking, folding, roll forming, spinning and deep drawing.

Cleaning and maintenance

All Advantica® products can be cleaned with commercially available, water based cleaning products. The use of abrasive cleaners or scouring pads is not recommended. For controlled environments, ensure that the cleaner is compatible with the pre-finished steel product used on.

Typical properties

Advantica® GM			Test standard
Nominal organic coating thickness	µm	25	EN 13523 - 1
Specular gloss (60°)	GU	20-60	EN 13523 - 2
Adhesion on bending	T	1	EN 13523 - 7
Flexibility (minimum bend radius)	T	3	EN 13523 - 7
Pencil hardness		HB - F	EN 13523 - 4
Scratch resistance	g	>1800	EN 13523 - 12
Abrasion resistance (Taber, 250 rev. 1 kg, CS10 wheels)	mg	<30	EN 13523 - 16
Corrosion resistance: Neutral salt spray	hours	360	EN 13523 - 8
Humidity resistance	hours	1000	EN 13523 - 26
Corrosion resistance category		RC3*	EN 10169
UV resistance category		Ruv3	EN 10169
CPI category		CPI3*	EN 10169

Notes

The figures contained in this table are typical properties and do not constitute a specification. If forming pre-finished steel below 16°C please consult Tata Steel for further information.

* Corrosion and humidity performance subject to specification such as minimal metallic coating weight.

If the product is ordered as anti-static, surface resistance will be between $10^6 - 10^9 \Omega/\text{cm}^2$ according to ASTM D257.

Contact details

www.tatasteelconstruction.com

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