

## Advantica® SDP 35 TR

A pre-finished steel product for the transportation industry

### Applications

- External bodies of industrial vehicles.

### Characteristics

- Smooth surface, optimised for structural bonding.
- Very good corrosion resistance.
- Very good resistance to salt and chemicals such as Pancreatin and Diesel.

### Substrates available

- Z or ZM hot-dip galvanised to EN 10346.

### 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 colours, 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

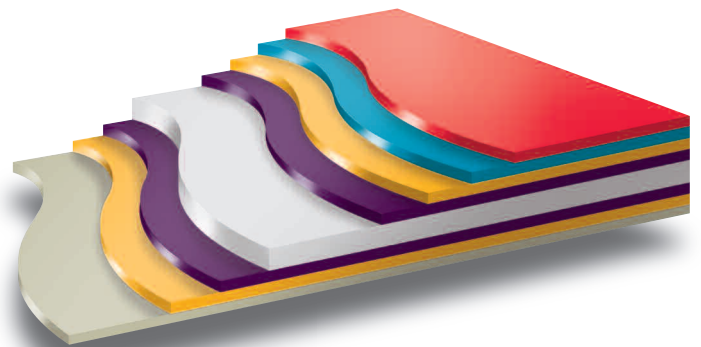
For any customized requirements, Tata Steel can meet your needs with shorter lead times, flexible quantities and further processing.

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](http://www.tatasteelconstruction.com)

### Product structure



#### Key

 Topcoat	 Primer	 Surface treatment
 Metallic coating	 Steel	 Backing coat

## 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® SDP 35 TR			Test standard
Nominal organic coating thickness	µm	35	EN 13523 - 1
Specular gloss (60°)	GU	20 - 80	EN 13523 - 2
Adhesion on bending	T	1	EN 13523 - 7
Flexibility (minimum bend radius)	T	2.5	EN 13523 - 7
Pencil hardness		F - HB	EN 13523 - 4
Scratch resistance	g	>1800	EN 13523 - 12
Abrasion resistance (Taber, 250 rev. 1 kg, CS10 wheels)	mg	<25	EN 13523 - 16
Corrosion resistance: Neutral salt spray	hours	500	EN 13523 - 8
Humidity resistance	hours	1000	EN 13523 - 26
UV resistance category		Ruv3	EN 10169
UV resistance (QUVA)	h	2000	EN 13523-10
Cyclic corrosion test (delamination on scratch): 6 cycles	mm	<2	VDA 233-102 / EN 11997
12 cycles	mm	<3	
Diesel test (change of appearance)	Visual	No	EN ISO 2812-T4
Pancreatin test (change of appearance)	Visual	No	EN ISO 2812-T4
Stone chip resistance (2 x 500g, 2 bar)	Class.	≤1.5	EN ISO 20567-1 VDA 621-427
Steam jet test	Class.	2	EN ISO 16925

### 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.

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