



VALAST® 450

Steel Warehouse Saves the Day with Tata Steel Valast® 450 Shipment

Companies everywhere are being challenged to meet deliveries due to issues in the supply chain, and the steel industry is no different.

Recently, lack of inventory caused a problem for a steel dump body manufacturer which had been sourcing its abrasion resistant steel needs to a single supplier. The mill was going to be late with delivery, disrupting the company's intended production schedule.

Luckily, Steel Warehouse keeps a good supply of Valast® 450 in stock, which provides the same performance characteristics as the existing steel. Truckloads were immediately dispatched to the trailer manufacturer's facility.

A change in materials can sometimes make plant personnel nervous. In this situation, the abrasion resistant steel had to be formed in two ways — first, in a plate roller where the steel is roll formed to achieve a consistent radius over the entire arc length; and secondly, in a press brake where a series of incremental bends are performed to create a smooth curve.

However, the operators were more than pleased to find that the Valast 450 was easy to work with — it formed well and was scale free. Plus, it delivered a surprising bonus benefit of a better paint finish than the original material.

We would consider this a change for the better.

The moral of the story? It may be wise to keep more than one supplier up your sleeve. This not only provides a better chance of keeping production running, but also opens the door to discovering potential improvements in the process and the product.



If you make any of these truck bodies... then you need to know about this.



Valast 450 **strip**

VS

AR450 **plate**

You can order Valast 450 in customized lengths for maximum efficiency.



Custom Lengths



AR450 plate is typically supplied in lengths to a maximum of around 472.444"

A lighter scale jacket gives Valast 450 a superior surface quality.



Surface Quality



Considerable scale can lead to an inferior surface quality.

Valast 450 has a very low CET of max 0.33 (CEV 0.45)



Weldability



AR450 plate is available from a CET of max 0.37 (CEV 0.48)

Every sheet from a coil of Valast 450 will have consistent chemical and mechanical properties.



Product Consistency



Each plate is rolled individually, which can lead to inconsistency.

Quality and consistency make it more cost effective.



Cost



AR450 plate can have higher yield loss and levels of waste, impacting cost.

Guaranteed impact performance of $\geq 20\text{ft.lbs}$ at -40°F .



Impact Properties



Products given 'typical' performance rating, not guaranteed.

TATA STEEL

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