

5 Stainless Fuel Tank Using Metastable Austenitic Grade

Name of member	Outokumpu
Manufacturer	TechRoi FUELSYSTEM
Field	Automotive and Vehicle, Green Energy, Transport
Location	Sweden
Environment	
Grade/surface	1.4310/2B - HyTensX
Quantity	6.3 kg per unit

A stainless steel fuel tank is superior in terms of crashworthiness and does not need any surface treatment or maintenance. The steel grade used for the build, HyTensX®, allows for extremely thin walls and tailored strength, which contributes to its lighter weight. The fuel tank is made in half-shell design, which provides easy assembly for internal components. The steel can be fully recycled when the car reaches the end of its life cycle. The winning concept: a combination of good design, proper material selection, engineering expertise and access to the material with sufficient delivery reliability. "The competitive price and durability of stainless steel bring tangible benefits for car manufacturers." Product manufacture has been able to cut, for example, engineering cost and time to market to half and investment cost about 50 to 70 percent. Outokumpu has a track record in supporting the automotive manufacturers to identify and engineer optimal fuel tank solutions, most recently in the United States market and Europa.

