

CASE STUDY

Waste Tyre Recycling

**ABRASERVICE UK  
CUTS THE WASTE  
TYRE MOUNTAIN**



Steel specialists Abraservice UK, one of Europe’s largest specialist steel processors and stockholders of abrasion resistant and high yield steel, are manufacturing primary screens and raspers for both shredders and granulators in the waste tyre market.

“CREUSABRO 4800 has a proven success rate in this type of heavy wear application and customers have found that screens manufactured from this product give at least 50 % more life than standard grades”

Nick Taylor, Abraservice UK  
Business Development Manager

As part of the IMS service the manufacture of the screens, dependent upon thickness and aperture, are high definition or laser cut, then rolled and welded with flat edges and studs for fixing according to the customers specification.

CREUSABRO 4800 grade steels, proven to be ideal for such applications, have a 370 HB hardness rating due to the addition of titanium carbide particles and its work hardening properties. Stable up to 350 C continuous and 400 C intermittent, the product regains its hardness after welding (cooling in air) and can be nitride to induce a surface hardness of approx 600 HB (for block moulds).

Typical applications for CREUSABRO 4800 include screens for sizing, block moulds, coking plants, marine dredging as well as hot formed grab edges. Customers have found that screens manufactured from this product give at least 50% more life than standard grades.

Key Technical Data, CREUSABRO 4800

Wear resistant steel that combines resistance to abrasion together with a high level of toughness.

<b>Applications</b>	Cement plants, quarry, mining and earthy moving equipment, block moulds, screen, steel production and recycling plants and vehicles.							
<b>Hardness</b>	340 HB-400 HB as supplied							
<b>Composition</b>	<b>C</b>	<b>S</b>	<b>P</b>	<b>Mn</b>	<b>Ni</b>	<b>Cr</b>	<b>Mo</b>	<b>Ti</b>
	≤ 0.20	≤ 0.05	≤ 0.018	≤ 1.60	≤ 0.20	≤ 1.90	≤ 0.40	≤ 0.20
<b>Thickness</b>	3-40mm							

contact Abraservice UK for full technical data sheet.

Benefits, CREUSABRO 4800

- Excellent wear resistant properties
- Optimum combinatio of wear resistance to abrasion together with a high level of toughness
- Ability to work harden offers an increased wearlife of up to 50 % versus conventional 400 HB materials
- Suitable for applications in steel component production for recycling plants and vehicles

Processing Facilities

- CAD/CAM Profiling
- Perforating
- Plasma Profiling
- Forming
- Laser Profiling
- Drilling and Countersinking
- Oxy-gas Profiling
- Bevelling
- DXF Compatible
- Welded Fabrications

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