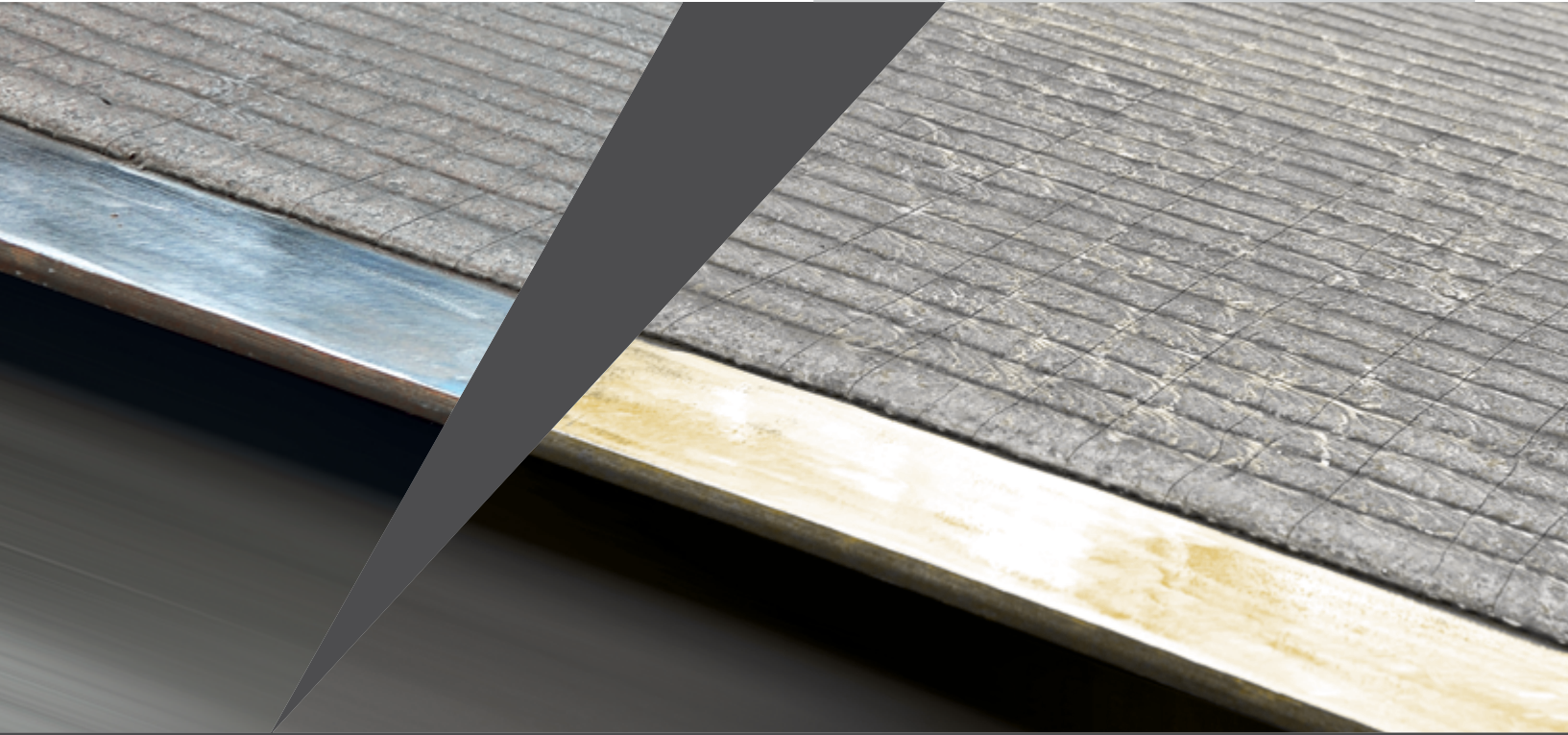




DATA SHEET SPECIAL PURPOSE STEEL EURODUR® 1000

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PLANNING & CONSULTING



From consulting and system engineering to the finished product.

QUALIFIED CONSULTANTS



We have the right specialist for every challenge.

CONSTRUCTION & PRODUCTION



Your order is produced with our cutting edge technology in best quality with utmost accurateness.

DELIVERY / ASSEMBLY



Flexible and dependable – including assembly on-site.

EURODUR® always sets focus on innovative products. Constant enhancements are achieved by closely working together with you as our client. Only together your individual needs and challenges can be solved. Hundreds of active EURODUR® clients are able to verify this, especially in the field of cement, mining, steel- and recycling industry.

Every single EURODUR® production facility is equipped with the most advanced technology. Production is computer controlled to reproduce optimum material performance even with varying material thickness. Our intense research work lead us (for instance) to optimize the cooling cycle to enhance the hardening phase. Constant improvement and quality control guarantee for optimum performance.

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YEARS



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PRODUCT INFORMATION

Abrasive wear protective plate

Because of its hardness and metalurgical composition, EURODUR®1000 offers superior durability – up to 50% more than comparable 400HB water-quenched steel. Furthermore, it offers very good formability. Target numbers apply in delivery state. Hardness up to 430HB.

Hightech in wear resistance

EURODUR® 1000 – titanium based alloy.

EURODUR® 1000 with its titanium based alloy is an innovation in the field of wear resistant steel. Additionally to very small, evenly distributed Cr-Carbides (1500HV) and Mo-Carbides (1800HV) of other EURODUR® steel, EURODUR® 1000 offers a titanium addition strengthening and armoring the steel even more with extremely hard carbides (3000HV). These carbides provide the steel with a very high wear resistance.

Temperature stability

Chemical composition of EURODUR® 1000, especially with Cr- and Mo additions, offer a better temperature stability than conventional water-quenched 400HB steel. EURODUR® 1000 is very temperature stable. In normal use, up to 500°C can be reached without loss of hardness. With this temperature window, it is possible to mould the steel up to 450-500°C without loss of hardness, if it is air-cooled afterwards.

Machining

Drilling and milling should be performed with high-speed steel (HSS). All cutting procedures applicable. Forming procedures like bending, edging and rounding applicable. All established welding procedures are applicable - matching welding consumables and sealing properties have to be observed.

Application

Wear-prone applications, where EURODUR® 1000 can be used cost efficiently: foundry, quarry, gravel quarry, agriculture, and more.

Highly wear resistant steel

Because of its hardness and metalurgical composition, EURODUR®1000 offers superior durability – up to 50% more than comparable 400HB water-quenched steel. Furthermore, it offers very good formability.

Mechanical characteristics

Target numbers apply in delivery state: Hardness up to 430HB.

SPECIAL PURPOSE STEEL