



EURODUR® GmbH  
Bahnhofstraße 12  
D - 97717 Euerdorf  
Telefon (09704) 91010  
eurodur@eurodur.com

# DATA SHEET

## EURODUR® 5500



### 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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## PRODUCT INFORMATION

<b>Production Technology</b>	The EURODUR <sup>®</sup> Composite plates are produced with highalloyed filler wire in an OpenArc-welding process. A high share of carbid-alloyed elements in the filler wire, combined with our self developed cooling technology of our welding tables, guarantee for an optimized homogeneous distribution of hardening material in the coating area and a minimum mixture with the substrate material.
<b>Technical Data</b>	EURODUR <sup>®</sup> 5500 consists of very hard chromium and titanium carbides as well as extra-hard borides. This composition ensures very good wear protection in a wide range of applications.
<b>Substrate to highly wear resistant coating</b>	A highly efficient wear resistant surface welding is possible with varying substrates, form <b>S235JR2 up to highly-alloyed materials.</b>
<b>Material Thickness of base material</b>	Standard thickness 5, 6, 8, 10 mm – more upon request.
<b>Dimensions</b> (coated area)	<b>Deliverable sizes:</b> Small: 850 x 1850 mm Medium: 1100 x 2350 mm Large: 1350 x 2850 mm  Special formats up to max. 1850 x 3800 mm upon request.
<b>Coating thickness</b>	Single Layer: 3 – 6 mm (for example 8 + 5 mm) Double Layer: from 8 mm substrate thickness (for example 8 + 4 + 4 mm)
<b>Coating hardness</b>	At normal temperature (20°C) EURODUR <sup>®</sup> 5500 reaches a hardness of up to 66 HRC +/- 2. Operating Temperature up to 500°C. Hardness measurement with test piece DIN 32525-4.
<b>Applications</b>	Used if ultra high resistance against abrasive wear and high temperatures together with moderate pressure- and shock wear resistance are needed.
<b>Examples of successful usage of EURODUR<sup>®</sup> 5500</b>	Fans, separators, linings for mills in the coal and cement industry, cyclones, mixer walls, excavator shovels, wear strips for waste disposal, chutes, screw conveyors, agitator arms, mixer blades, etc.

## ADDITIONAL COATING VARIANTS



The 45 degree orientation of the welding bead to the conveying direction induces only small wear. Welding toes as well as hardening cracks are directed at a 45 degree angle to the conveyor stream, protecting the component against wear.



Wearout during transportation of highly abrasive media is often evident at welding transitions. If high speed transportation of highly abrasive or very fine particles is needed, the welding in sine wave form should be preferred because it shows great advantages in reduced wear of the component.