



DES lining systems Sp. z o.o.

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DES LINING SYSTEMS Sp. z o.o. specialises in protecting machine and equipment surfaces from abrasion, impacts and tacky material adhesion.

For this purpose, the company offers specialist abrasion-resistant panels of thermoplastic polyurethane EUROPAN TPU, moulds of special alloys of the DESLIW HB 700+ cast iron, and others.

The **EUROPAN TPU** abrasion-resistant linings offered by DES lining systems Sp. z o.o. are made of thermoplastic polyurethane using the extrudation method, which makes them a state of the art protection against abrasion for metal surfaces.

The **EUROPAN TPU** linings are characterised by high resistance to abrasion and shock elasticity, much higher than other abrasion-resistant materials like abrasion-resistant metal sheets, abrasion-resistant rubbers, cast polyurethanes, etc.



BASIC PARAMETERS:

- Grindability approximately 15 mm³
- Breaking strength at least 50 MPa
- Relative extension approximately 500%
- Tearing strength 70 kN/m acc. to PN-ISO 34-1
- Elasticity 40% acc. to ISO 4662
- Very high resilience to abrasion
- High elasticity in a wide temperature range
- Excellent impact strength in low temperatures
- Excellent resistance to oils, lubricants and solvents
- Good resistance to atmospheric conditions and high radiation energy

- No plasticisers
- Easy recycling
- Standard thickness 2-12 mm
- Standard panel size 1500 x 3000 mm (greater lengths available in rolls)

DESLIW HB 700+ CAST IRON

The **DESLIW HB 700+** cast iron is a high-alloy abrasion-resistant material, consisting of a very highly abrasion-resistant cast iron layer with a high chromium carbide content.

Special heat treatment makes abrasion-resistant linings made of this cast iron reach 58 to 64 HRC hardness across its whole thickness, without a soft core. This allows for great savings during equipment operation and for extension of device operating time without the need for lining replacement. This way, it is possible to save a lot on maintenance and increase production efficiency.

To compare, improved thermal linings made of alloy steels have 6 times lower abrasion resistance than high-alloy cast iron.

The linings are resistant to:

- abrasion
- impacts
- high temperature
- chemically-aggressive materials in cast iron transport lines





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DES lining systems has in its range a selection of specialist glues, including glues for conveyor belts.

DESMOSTIK SC-5000

– a glue designed for combining rubber with rubber, rubber with cloth, rubber with metal, etc. The main application of the **DESMOSTIK SC-5000** glue is connecting conveyor belts in places where no fire hazard exists. A belt glued with the **DESMOSTIK SC-5000** glue is ready for use even 1 hour after gluing is finished. Moreover, the **DESMOSTIK SC-5000** glue allows for combining glue with metal without the need for a primer, since it already is one of its components.

TYPES OF PACKAGING: can – 870 g glue + 35 g hardener. Other types available at Customer's request.

DESMOSTIK SC-6000 (NON-FLAMMABLE)

– a glue designed for permanently connecting rubber with rubber, rubber with cloth, and also rubber with metal, etc. The main application of the **DESMOSTIK SC-6000** glue is connecting conveyor belts in **underground headings of mining facilities under existing hazards**. A belt glued with the **DESMOSTIK SC-6000** glue is ready for use even 1 hour after gluing is finished. Moreover, the **DESMOSTIK SC-6000** glue allows for combining glue with metal without the need for a primer, since it already is one of its components.

TYPES OF PACKAGING: can – 1 kg glue + 40 g hardener. Other types available at Customer's request.

POLISH GLUE



DESMOSTIK GLUES DO NOT CONTAIN TRICHLORIUMETHYLENE