

Domex Pole 900

General Product Description

Pole sheet steels with guaranteed magnetic and mechanical properties. Pole sheet steel grades from SSAB possess excellent magnetic, mechanical and processing properties, making them ideal for pole and rim sheets. Applications include electromagnetic components such as rotors and stators – even at high rotational speeds and in strong magnetic fields – as well as pole and rotor rim sheets for hydropower generators.

Domex 900 Pole Sheet is delivered as cut to length sheets with mill edge in lengths up to 16 meters in the following dimensions.

For cut edges the width can be reduced from 35 up to 80 mm.

Mechanical Properties

| Thickness (mm) | Yield strength $R_{p0.2}$ (min MPa) | Tensile strength R_m (min MPa) | Elongation A_{80} $t < 3$ mm (min %) | Elongation A_5 $t \geq 3$ mm (min %) |
|-------------------|--|-------------------------------------|--|--|
| 3- 3.49 | 900 | 1000 | | 10 |
| 3.5- 5 | 900 | 1000 | | 10 |

The mechanical properties are valid in both longitudinal and transverse direction.

Testing

The mechanical and magnetic properties are tested in accordance with EN 10265.

Magnetic Properties

| Magnetic Flux Density 5 kA/m (min) | Magnetic Flux Density 15 kA/m (min) | Typical Magnetic Flux Density 5 kA/m | Typical Magnetic Flux Density 15 kA/m |
|---------------------------------------|--|---|--|
| 1.46 | 1.78 | 1.6 | 1.87 |

Measurements were carried out with an Epstein frame and in accordance with EN 60404-2/A1

Tolerances

Domex Pole Sheet is supplied with tolerances in accordance with EN 10051. More narrow tolerances are available on request according to SSAB standard.

Delivery Conditions

Thermomechanically rolled.

Surface and edge condition

Domex 900 Pole Sheet is available with as rolled surface with mill or cut edge.

Fabrication and Other Recommendations

Domex 900 Pole Sheet is suitable for laser cutting and punching.

For information concerning fabrication, see SSAB's brochures on www.ssab.com or consult Tech Support, techsupport@ssab.com.

Appropriate health and safety precautions must be taken when cutting, grinding or otherwise working on the product.

Contact Information

www.ssab.com/contact