

Toolox 40

Engineering & Tool Steel

General Product Description

Toolox 40 is delivered quenched and tempered with good impact toughness and very low residual stresses to get good dimensional stability after machining. Toolox 40 is suitable for plastic moulding, for rubber moulding and machine components. With proper surface treatment, the service life of the tool/component can be prolonged.

Thickness

Toolox 40 is supplied as plate in thicknesses between 6 - 130 mm.

Mechanical Properties

Hardness HBW min - max
360 - 420

Hardness is measured, according to EN ISO 6506-1, on a milled surface 0.5 - 2 mm below the original surface.

Impact toughness

Test temperature	Impact energy, Charpy-V, transverse direction; min J
20 °C	20

Ultrasonic inspection

Ultrasonic inspection is carried out according to:

EN 10 160 (rolled plates) with extra demands according to specification SSAB V6.

Tolerances

More detail are given in SSAB's brochure 41-General Product Information Weldox, Hardox, Armax and Toolox-UK or on www.ssab.com.

Dimension

Thickness tolerances between 6 -130 mm according to SSAB thickness guarantee AccuRollTech – AccuRollTech meets the requirements of EN 10 029 class C, but offers more narrow tolerances.

Length and width tolerances are according to EN 10 029.

Flatness

Flatness tolerances are according to SSAB flatness tolerances, closer than EN 10 029 Class N (steel type L).

Surface Properties

According to EN 10 163-2 Class B, Subclass 3.

Delivery Condition

Quenched and tempered at a minimum temperature of 590 °C.

On delivery from SSAB the plate meets the following specifications:

- free from mill scale
- not repair welded

Delivery requirement can be found in SSAB's brochure 41-General Product Information Weldox, Hardox, Armax and Toolox-UK or www.ssab.com.

Fabrication and Other Recommendation

Toolox 40 is not intended for further heat treatment. If Toolox 40 is heated above 590 °C after delivery from SSAB no guarantees for the properties of the steel are given.

Nitriding or surface coating may be carried out if the temperature is below 590 °C.

Appropriate health and safety precautions must be taken when welding, cutting, grinding or otherwise working on the product. Grinding, especially of primer coated plates, may produce dust with high particle concentration. Tech Support department, help@ssab.com, will provide further information on request.

Contact and Information

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