

# TOOLOX<sup>®</sup>44

PREHARDENED TOOL STEEL

TOOLOX 44 is a quenched and tempered tool steel, designed to have low residual stresses. It is characterized by its very good machinability, in spite of a hardness of 45 HRC. The steel is especially suited for plastic moulds, having excellent polishing and etching ability.

Other applications are for example rubber moulds, bending tools, recipient sleeves, wear parts, etc.

<b>Hardness</b> (Guaranteed values)	HBW 410–475 (Approx. 41-47 HRC)
<b>Impact properties</b> (Guaranteed values)	Testing temperature °C Impact energy Charpy-V longitudinal direction; min. J 20                      18
<b>Tensile properties</b> (Calculated values)	Tensile strength approx. 1250 - 1600 MPa
<b>Milling</b> (Guaranteed values)	At a cutting speed of 175 m/min. feed 0,15 mm, 10 min. effective cutting time using a Sandvik Coromill 200 and inserts GC 1025, we guarantee max 0,3 mm edge wear.
<b>Ultrasonic insp.</b> (Guaranteed values)	Discontinuities giving echoes at least equivalent in amplitude to flat bottom hole 1,5 mm shall be reported according to SSAB Standard V6.
<b>Etching properties</b> (Guaranteed values)	TOOLOX 44 fulfils the demands according to NADCA 207 - 97.
<b>Dimensions</b> (Preliminary)	TOOLOX 44 is supplied in plate thicknesses 20-130 mm. See stock list on opposite side.
<b>Delivery condition</b>	Quenched and tempered at min. 590°C
<b>Heat treatment</b>	TOOLOX 44 is not intended for further heat treatment. If TOOLOX 44 is subjected to any heat treatment above 590°C, after delivery from SSAB Oxelösund AB, no guarantees concerning the properties of the material will be given.
<b>Testing</b>	Testing in accordance with EN 10 137-1, 10 137-2 and EN ISO 6506-1. Hardness measured on a milled surface, 0,5-2 mm below surface.
<b>Tolerances</b>	According to EN 10 029 – Thickness tolerances to Class C. – Flatness tolerances to Class N, steeltype L.
<b>Surface finish</b>	According to EN 10 163-2 – Surface requirements to Class B. – Repair conditions to Subclass 3.
<b>Fabrication</b>	For information concerning fabrication, please contact SSAB Oxelösund AB.

