

Product sheet:



TOOLOX33[®]

300 HBW with ESR properties



November-07

Specification

Hardness	HBW 280 - 330		
Impact toughness	Test temperature °C 20	Impact energy, Charpy-V-test for plate, transverse direction; min J ≤ 130 mm 27	Impact energy, Charpy-V-test for forged bar, thickness direction; min J > 130 mm 14
Milling	At a cutting speed of 300 m/min, feed 0.15 mm and 10 min effective machining time using Sandvik Coromill 200 and inserts GC 1025, we guarantee maximum edge wear of 0.3 mm.		
Ultrasonic inspection	All plates and forged bars tested in accordance with SSAB Standard V6.		
Etching	TOOLOX 33 fulfils the etching requirements of NADCA 207-2003.		
Dimensions	TOOLOX 33 is supplied as plate in thicknesses between 5 - 130 mm, or as forged bars in thicknesses between 150 - 300 mm.		
Delivery condition	Quenched and tempered at a minimum temperature of 590 °C		
Heat treatment	TOOLOX 33 is not intended for further heat treatment. If TOOLOX 33 is heated above 590 °C after delivery from SSAB Oxelösund AB no guarantees for the properties of the steel are given.		
Nitriding/coating	Nitriding or surface coating may be carried out if the temperature is below 590 °C.		
Testing	Testing according to EN 10 025 and EN ISO 6506-1. Hardness is measured on a milled surface 0.5 - 2 mm below the original surface.		
Tolerances	Plate;	According to EN 10 029 - thickness tolerance according to Class C. - flatness tolerance according to Class N, steel type L.	
	Forged bars;	According to DIN 7527	
Surface finish	On delivery from SSAB Oxelösund AB the plate meets the following specifications: - free from mill scale - not repair welded - surface defects deeper than the nominal ordered thickness are not permitted. Forged bars according to DIN 7527		