

HX300BD

Steels with high yield strength
for cold forming – bake hardening

Material no.	1.0445
according to	DIN EN 10292/ DIN EN 10143

Surface finish

Thickness ranges

MB	0.50 – 3.00
MC ¹⁾	0.50 – 2.00

¹⁾ By agreement

Chemical composition¹⁾ (in percent by weight)

	min.	max.
C		0.110 %
Si		0.500 %
Mn		0.700 %
P		0.120 %
S		0.025 %
Al	0.020 %	

¹⁾ Ti + Nb + V ≤ 0,22%. The addition of boron is permitted.

Mechanical properties (transverse)

Yield strength R _e ¹⁾	300 – 360 MPa
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Tensile strength R _m	400 – 480 MPa
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Total elongation A ₈₀	≥ 26 %
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Bake Hardening BH ₂	≥ 35 MPa
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Available dimensions

Thickness in mm	Width in mm
0.50 – 0.63	900 – 1,590
0.64 – 0.79	900 – 1,750
0.80 – 2.00	900 – 1,850
2.01 – 3.00	900 – 1,600

The samples for the tensile test are taken at right angles to rolling direction unless the product width is opposed to this.

¹⁾ R_{eL}/R_{p0,2}