HC220B+ZE

Steels with high yield strength
for cold forming – bake hardening

Material no.	**1.0396**
according to	**DIN EN 10268:2006**

Surface finish

Thickness range

03	0,50 – 1,50
05 [1]	0,50 – 1,50

1) By agreement

Chemical composition[1]

(in percent by weight)

	min. in %	max. in %
C		0,06
Si		0,5
Mn		0,7
P		0,08
S		0,030
Al	0,015	

2) Heat analysis

Mechanical properties (transverse)

Yield strength R_e[3] in MPa
220 – 270

Tensile strength R_m in MPa
320 – 400

Total elongation A_{80}[4] in %
≥ 32

Hardening exponent n_{90}
≥ 0,16

Anisotropy r_{90}
≥ 1,5

Bake Hardening BH_2 in MPa
≥ 35

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

3) $R_{eL}/R_{p0,2}$

4) Reduced minimum values of elongation are valid for thicknesses ≤ 0,5 mm (minus 4 units) and for thicknesses > 0,5 mm and ≤ 0,7 mm (minus 2 units).

Available dimensions

Thickness in mm	Width in mm
0,50 – 0,59	900 – 1.685
0,60 – 2,00	900 – 1.850
2,01 – 3,00[5]	900 – 1.850

5) Surface A only

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