

HC220Y+ZE

Steels with high yield strength for cold forming - ultra high strength IF

Material no.	1.0925
according to	DIN EN 10268

Chemical composition

(in percent by weight)

	min. in %	max. in %
С		0.01
Si		0.3
Mn		0.9
Ρ		0.08
S		0.025
AI	0.01	
Ti		0.12 1)
Nb		0.09 1)

 These additional elements may be added single or in combination, if they are contained in the specification of the steel grade and the mass fraction being within the permissable limits. Vanadium can also be added. The total of the mass fractions of all four elements shall not exceed 0.22%.

Mechanical properties (transverse)

Yield strength R_{eL}/R_{p 0,2} in MPa

220 - 270

Tensile strength R_m in MPa 340 - 420

Total elongation A_{80} in % ≥ 33

Hardening exponent n₉₀

≥ 0.18

Anisotropy r₉₀

≥1.6 %

Products acording to this European Standard must meet the requirements for transverse test pieces as given in table 2.

It may be agreed that the requirements for longitudinal test pieces, as given in table 3, shall be valid instead of those for transverse test pieces.

Available dimensions

Thickness in mm	Width in mm
0.50 - 0.59	900 - 1,500
0.60 - 0.69	900 - 1,700
0.70 - 1.59	900 - 1,800
1.60 - 1.99	900 - 1,650
2.00 - 2.49	900 - 1,600
2.50 - 3.00	900 - 1,300

Surface finish

This steel grade is available with surface finishes A and B and 03 and 05 respectively.

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