



HC300LA+ZE

Steel grades with high yield strength
for cold forming - micro alloyed

Material no.	1.0489
according to	DIN EN 10268, Edition 12/13

Mechanical properties (transverse)

Yield strength $R_{eL}/R_{p0.2}$ in MPa
300 - 380
Tensile strength R_m in MPa
380 - 480

Available dimensions

Thickness in mm	Width in mm
0.50 - 0.59	900 - 1,300
0.60 - 0.69	900 - 1,400
0.70 - 1.29	900 - 1,700
1.30 - 3.00	900 - 1,850

Chemical Composition

(in percent by weight)

	min. in %	max. in %
C		0.12
Si		0.5
Mn		1.4
P		0.030
S		0.025
Al	0.015	
Nb		0.09 % ¹⁾
Ti		0,15 % ¹⁾

Total elongation A_{80} in %
≥ 23

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

Surface finish

Micro-alloyed steel grades with higher yield points can only be supplied with surface finish A and 03 respectively.

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 permissible limits.

Vanadium can also be added. The total of the mass fractions of all three elements shall not exceed 0,22%.