

# HC380LA Micro-alloyed steel grades with high yield strength for cold forming

1.0550

according to	DIN EN 10268,	
	Edition 10/06	
hemical compos		
in percent by weig	110)	
min. in %	max. in %	
min. in %	<b>max. in</b> %	
С	0.12	
C Si	0.12	

0.015 0.09<sup>2)</sup>

0.152)

#### 1) Heat analysis

ΑI

Nb

Ti

Material no.

2) 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 three elements shall not exceed 0.22%.

# Mechanical properties (transverse)

Yield strength $R_{eL}/R_{p\ 0,2}$ in MPa		
380 - 480		
Tensile strength R™ in MPa		

440 - 580

Total elongation A<sub>80</sub> in % ≥ 19

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
0.60 - 0.69	1,000 - 1,500
0.70 - 1.39	900 - 1,600
1.40 - 2.00	900 - 1,700
2.01 - 2.35	900 - 1,600
2.36 - 3.00	900 - 1,500

## Surface finish

The steel grade is available in the surface finishes A and 03.

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