

## HX420LAD

Steels with high yield strength  
for cold forming – micro-alloyed

Material no.	<b>1.0935</b>
according to	<b>DIN EN 10292/ DIN EN 10143</b>

### Surface finish

Thickness ranges

MB	0.50 – 3.00
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### Chemical composition

(in percent by weight)

	min.	max.
C		0.110 %
Si		0.500 %
Mn		1.400 %
P		0.025 %
S		0.025 %
Ti		0.150 %
Nb		0.090 %
Al	0.015 %	

### Mechanical properties (transverse)

Yield strength $R_e^{1)}$	420 – 520 MPa
Tensile strength $R_m$	470 – 590 MPa
Total elongation $A_{80}$	≥ 17 %

### Available dimensions

Thickness in mm	Width in mm
0.50 – 0.70	900 – 1,450
0.71 – 0.87	900 – 1,500
0.88 – 1.23	900 – 1,550
1.24 – 1.95	900 – 1,730
1.96 – 2.00	900 – 1,800
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)  $R_{eL}/R_{p0.2}$