



## AndroSal®700 (Hot-rolled Sheets)

High-strength steels for cold-forming, thermomechanically-rolled

<b>Material no.</b>	-
Materialinformationblatt (MIB) according to	
Tensile strength class	D

Its chemical composition ensures good weldability and galvanizing properties (galvanizing category B).

below the required minimum value by more than 30 %. The required minimum values are reduced proportionally to the sample width.

### General

Our customers' demand for cold-formable steels with maximum strength and high stress homogeneity led to the development of the AndroSal® product group. AndroSal®700 combines excellent processing properties with a particularly demanding dimensional range (6 to 12 millimetres thick in widths of 1,350 to 1,500 millimetres).

AndroSal® can also be combined with the product feature seca®extra. Seca®extra is characterized by minimal flatness deviations on the cut component.

### Chemical composition<sup>1)</sup> (in percent by weight))

	min. in %	max. in %
C		0.12
Si	0.14	0.25
Mn		2.10
P		0.025
S		0.008
Al <sub>ges</sub>	0.015	
Ti		0.20
V		0.20
Nb		0.09
Mo		0.50
B		0.005
CEV <sup>3)</sup>		0.50

1) Heat analysis

2) Sum Nb + V + Ti ≤ 0.22 %

3) Max. Carbon equivalent

CEV (IIW) = C + Mn / 6 + (Cr + Mo + V) / 5 + (Cu + Ni) / 15

Commitments regarding certain properties or a certain purpose of use require written agreements. Technical changes as well as typesetting and printing errors reserved.

### Mechanical properties<sup>4)</sup>

<b>Yield strength R<sub>eH</sub> in MPa</b>
≥ 700

For thicknesses > 8 millimeters, the yield strength values may be 20 MPa lower.

<b>Tensile strength R<sub>m</sub> in MPa</b>
750 - 950

<b>Total elongation A<sub>5</sub> in %</b>
≥ 12

<b>Nominal thickness</b>	<b>min. bending radius<sup>5)</sup></b>
in mm	
≤ 12.0	2xt

4) Longitudinal samples are used to determine the yield strength, tensile strength, total elongation and notch impact work.

5) Min. bending radius 180°, determined longitudinal and transverse to the rolling direction.

### Notch impact energy

(can be ordered optionally)

a)

<b>Testing temperature</b>	<b>Notch impact energy</b>
in °C	in J
- 20	≥ 40

b)

<b>Testing temperature</b>	<b>Notch impact energy</b>
in °C	in J
- 40	≥ 27

6) For Charpy V-sample 10x10 millimeters

If agreed when ordering, the notch impact work is verified on longitudinal samples at -20 °C or alternatively at -40 °C. The average value of the impact work from 3 samples is at least 40 J or 27 J. An individual value may not fall

### Seca®extra

(optionally available)

	<b>Max. flatness deviation on the cut component</b>
<b>Nominal width w</b>	
in mm	in mm
1,350 < w ≤ 1,500	10

### Available dimensions

Hot rolled sheets unpickled, mill edge/trimmed edge

<b>Thickness in mm</b>	<b>Width in mm</b>
6.00 - 12.00	1.350 - 1,500

Hot rolled sheets pickled, mill edge/trimmed edge

<b>Thickness in mm</b>	<b>Width in mm</b>
6.00 - 8.00	1,350 - 1,500

### Tolerances on dimensions and shape

Hot-rolled sheets according to DIN EN 10051.

### Surface condition

Hot-rolled sheets pickled or unpickled according to DIN EN 10163-2.

### Condition of delivery, scope of testing and certificate

The conditions of DIN EN 10149-2, sections 7.2 and 8 apply to delivery and testing. The products are delivered in thermomechanically rolled condition.

Test certificates in accordance with DIN EN 10204 can be supplied as follows: EDP, data transmission, fax, e-mail, paper.