

# Dual-phase steel

Technical Terms of Delivery

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# Dual-phase steel

## Overview

Ideally, this steel grade shows a two-phase structure. It has a very low yield ratio for a very high tensile strength. The steel is characterized by good cold-forming properties and is especially suitable for pressed parts, particularly wheel disks.

Special advantages of DP 600 are the so-called work-hardening and bake-hardening properties. Work-hardening is an increase in strength caused by the forming process (hardening). As a result of bake-hardening, the strength additionally increases during paint baking. These two mechanisms lead to high strength in the finished component. Special mention must also be made of the excellent fatigue strength of DP 600.

## Chemical composition

Guaranteed values of heat analysis in %

Steel grade	C max.	Si max.	Mn max.	P max.	S max.	Al	N max.	Cr+Ni+Cu max.
DP 600	0.12	0.50	1.40	0.085	0.008	0.02 – 0.06	0.009	1.30

## Mechanical properties

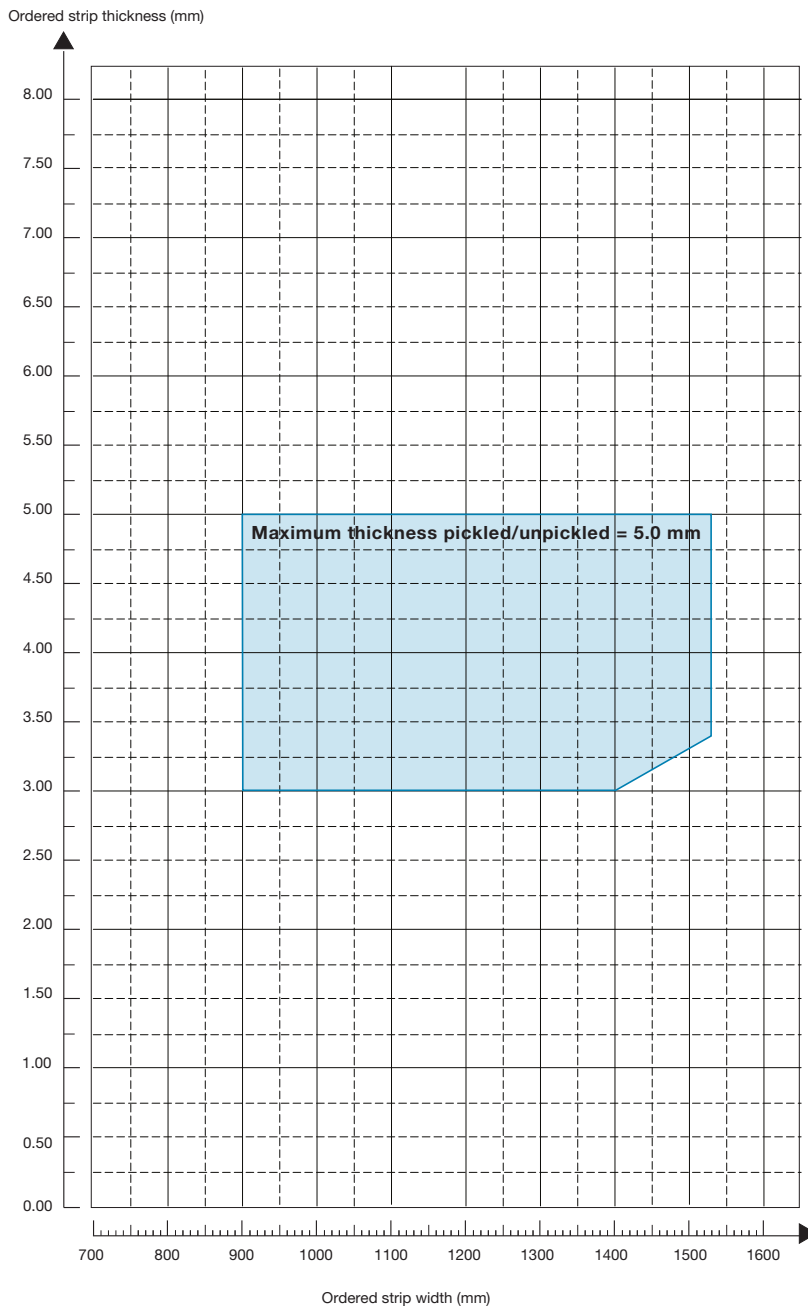
In as-delivered condition at room temperature

Steel grade	Yield strength $R_{p0.2}$ [N/mm <sup>2</sup> ] Transverse	Tensile strength $R_m$ [N/mm <sup>2</sup> ] Transverse	Elongation to fracture $A_5$ [%] Transverse min.
DP 600	300 – 470	580 – 670	22

# Available dimensions

## DP 600

Available dimensions dual-phase steels



The graphics refer to thickness values with symmetrical thickness tolerances.

Please contact our sales departments for dimensions in widths below 900 mm (production scheduling for center slitting and longitudinal slitting lines).

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- Expertise and reliability
- Responsibility for satisfactory project completion
- Partnerships based on trust

Many years of successful partnerships with our customers prove our point.

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