

CR800LA

Processing efficiency on a wider scale



Cold-rolled steel strip

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CR800LA HIGH-STRENGTH MICROALLOYED WIDE STRIP

With a minimum yield strength of 800 MPa and a tensile strength of up to 1030 MPa, this steel grade developed by voestalpine is just the right solution for cold-formed components. The new cold-rolled, microalloyed CR800LA is available as wide strip up to 1500 mm in width.

The high-strength steel has already been proven in serial production and, thanks to its excellent material and forming properties, is recommended for a wide range of applications, such as the following:

- » Automotive (seat rails, safety parts, springs, gearbox components etc.)
- » Hinges and guidance systems
- » Rack and storage systems
- » Profiles



Higher level of manufacturing efficiency

- » Unique bending properties
- » High resistance to edge cracking, very good formability of punched edges
- » Excellent weldability



More sustainability

- » Optimized material utilization in component manufacturing
- » Also available with a reduced carbon footprint as greentec steel edition



Higher level of safety

- » Best crash performance for high-strength components



More possibilities

- » Available as wide strip up to 1500 mm in width



PREMIUM QUALITY
WITH REDUCED
CARBON FOOTPRINT

CR800LA PUSHING LIMITS

Chemical composition

Ladle analysis in mass %, voestalpine special grade

C max.	Si max.	Mn max.	P max.	S max.	Al min.	Nb max.	Ti max.	Cu max.
0.12	0.50	1.60	0.025	0.010	0.015	0.10	0.15	0.20

Mechanical properties

Tensile test, voestalpine special grade

Test direction	0.2% yield strength $R_{p0.2}$ [MPa]	Tensile strength R_m [MPa]	Total elongation $A_{80 \text{ min.}}$ [%]
lengthwise	800 – 950	830 – 1030	9

Total elongation

Thickness range [mm]	Width range [mm]
1.40 – 1.80	1100 – 1500



Premium quality with reduced carbon footprint

Cold-rolled steel strip – greentec steel edition

Max. carbon footprint 1.97 kg CO₂e per kg of steel ¹⁾

¹⁾ per EN 15804+A2 (EPD methodology) cradle to gate

All products, dimensions and steel grades listed in each voestalpine supply range are available as greentec steel edition.

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Please find more detailed information about CR800LA at voestalpine.com/ultralights/en/newsletter



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ONE STEP AHEAD.