

# perform<sup>®</sup> 900 and perform<sup>®</sup> 960

## High-strength cold forming steels

### Features

- Excellent cold forming properties for complex part geometries
- High strength
- Readily weldable (low CE/CET)
- Very high surface quality
- Outstanding toughness
- Weight reduction potential for higher payloads

### Dimensions

Thickness 4.00 – < 6.00 mm; width 1,000 – 1,320 mm

Thickness 6.00 – 8.00 mm; width 1,000 – 1,520 mm

Length 1,000 – 16,000 mm

Further dimensions under development

### Mechanical properties

Rolling direction	longitudinal			longitudinal				transverse	
	Yield strength	Tensile strength	Elongation	Notch impact energy					
	R <sub>eH</sub> [MPa] min	R <sub>m</sub> [MPa]	A5 [%] min	KV [J] min at a testing temperature of		KV [J] min at a testing temperature of			
				-20 °C	-40 °C	-20 °C	-40 °C		
perform <sup>®</sup> 900	900	940 – 1,200	10	60	30	30	27		
perform <sup>®</sup> 960	960	980 – 1,200	10	60	30	30	27		

### Chemical composition

Mass fractions in ladle analysis	C [%] max.	Si [%] max.	Mn [%] max.	P [%] max.	S [%] max.	Al [%] min.	Nb [%] max.	V [%] max.	Ti [%] max.	Mo [%] max.	B [%] max.
perform <sup>®</sup> 900	0.12	0.3	1.70	0.02	0.01	0.015	0.06	0.12	0.05	0.7	0.005
perform <sup>®</sup> 960	0.12	0.3	1.70	0.02	0.01	0.015	0.06	0.12	0.05	0.7	0.005

### Applications

- Frames for commercial and special-purpose vehicles
- Special profiles/molded parts for commercial and special-purpose vehicles
- On-board cranes
- Mobile cranes

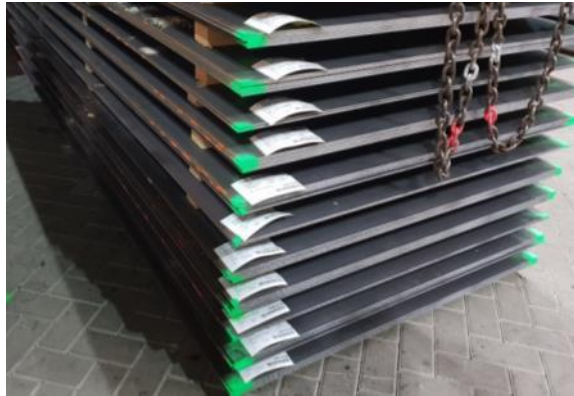
Excellent cold formability and toughness



# New developments in the XAR<sup>®</sup> family

## XAR<sup>®</sup> 400 and XAR<sup>®</sup> 450 as cut-to-length sheets

- Extension of the XAR<sup>®</sup> family by direct hardened cut-to-length sheets
- Good surface quality, flatness and narrow thickness tolerances
- XAR<sup>®</sup> 400 first dimensions available, XAR<sup>®</sup> 450 and further dimensions XAR<sup>®</sup> 400 available mid 2019



Thickness/ Width [mm]	XAR <sup>®</sup> 400			XAR <sup>®</sup> 450		
	3	4	6	3	4	6
≤ 1.000		Serial production		In development		
≤ 1.250		In development	Serial production	In development		
≤ 1.500			Serial production	In development		
> 1.500				In development		

- Serial production
- In development

