



Product Offer

Saint-Saulve, May 2023



- SAARSTAHL ASCOVAL produces green steel coming out of an electric route
- We supply continuous cast rounds (CCR) in various diameters (from 180 mm to 310 mm), rectangular blooms (255*300 and 300*365 mm) and billets (currently 155 mm² and 180 mm²)
- In carbon and alloy steel up to 5% Chromium
- With recognized capabilities in low carbon and high cleanliness
- Typical segments are : rails, mechanical engineering, heavy construction equipment, oil and gas, boilers, automotive, bearing
- Please visit our web site for more details : www.ascoval.fr

Product Portfolio - Shape and Dimensions

Available profiles

Rounds : Ø180, 220, 250, 260, 270, 280, 310, 325 mm

Blooms : 255 mm x 330 mm , 300 mm x 365 mm

Billets : 155 mm x 155 mm , 180 mm x 180 mm

Possible developments

Billets : up to 240 mm x 240 mm (6 months lead time)

Minimum order quantity

6 heats per grade and shape, possible 3 heats if grade can be combined with other grade(s)

Length

From 4,5 to 12,4 m

Product Portfolio - Typical grades

Element minimum (%) Except * maximum	C	Mn	Si	S	P*	Ni	Cr	Mo	V
Rails	Steel grades according to EN 13674-1 to 4 and EN 14811: R200, R220, R260, R320 Cr, R350HT, R400HT...								
	0,38% to 1,07%	Up to 1,35%	Up to 1,2%				Up to 1,25%	0,02%	
Industry: Automobile, mechanical, construction	Mechanical grades, Resulfurized grades, High yield grades : S355, C45, C55, 50CrMo4, 42CrMo4, 34CrNiMo6, 20Mn4-5-6, 18MnCr5...								
	0,07% to 0,7%	0,3% to 1,6%	Up to 1,3%	Up to 0,2%	0,01%	Up to 4%	Up to 2,5%	Up to 0,85%	Up to 0,24%
Oil and Gas application and accessories : Bars and Tubes	API5CT carbon steels and chromium steels : L80, P110, T95, 5%cr, 4130, 4140, Line pipes API5L X52...								
	0,005% to 0,4%	0,3% to 1,4%	0,1% to 2%		0,01%	Up to 6%	0,2% to 5%	0,2% to 2,3%	
Electrical power plants/ Boilers	TÜV products, ASTM grades B, C, T11, T22, T24, S355, P5...								
	0,05% to 0,12%	0,3% to 0,6%	0,1% to 2%		0,01%	0,1% to 1,1%	0,8% to 5%	0,05% to 1%	0,20%
Bearing steel	100Cr6								
	0,93%	0,3% to 0,7%	0,20%		0,01%		1,30%		

Micro alloys possible depending on customer needs : B, Ti, V, Nb, ...

Product Portfolio - Quality

Chemical analysis:

H measurement (Hydris method) in the tundish. 2 ppm is possible (except on first half of first heat of sequence)

On a case to case basis, 1,5 to 1 ppm is reachable

In-house testing with optical emission spectrometer equipment

In-house testing with combustion method for C, S, O and N

Macro-cleanliness : based on SEP 1584 method C : max 5 mm/dm² is possible

Micro-cleanliness: based on ASTM E45 method A or SEP 1571, depending on customer requirements

For example :

Sulfide		Alumina		Silicate		Oxides	
A Thin	A Thick	B Thin	B Thick	C Thin	C Thick	D Thin	D Thick
Depends on S content		1	0,5	0	0	1	0,5

Oxygen content: below 20 ppm (and below 10 ppm for bearings steels)

Internal quality: based on the acid/macro etching method ASTM E381, performance is C2, R2, S2

Frédéric Ford – Sales/Administration Manager

& Communication Manager

frederic.ford@saarstahl-ascoval.fr

+33 6 80 37 66 95

David Potier – Sales Director

d.potier@secosar.fr

+33 6 29 84 36 05

A large, glowing red metal beam is the central focus of the image, set against a background of industrial machinery. The beam is positioned diagonally, extending from the lower left towards the upper right. It has a bright, fiery red-orange glow, suggesting it is extremely hot. The surrounding environment is filled with various mechanical components, including bolts, nuts, and metal plates, all rendered in a soft, hazy light. The overall scene is industrial and dramatic, with a strong sense of heat and power. The text "Thank You" is overlaid in the center of the beam in a clean, white, sans-serif font.

Thank You