



GLOBAL
BRIGHT BARS

A photograph of a large industrial warehouse filled with long, silver-colored steel reinforcement bars (rebar) stacked horizontally on blue metal racks. A worker in an orange safety vest and blue shirt is walking through the aisles, slightly blurred due to motion. The warehouse has a high ceiling with steel beams and a yellow overhead crane. The word "PRODUCTS" is overlaid in large, white, sans-serif capital letters across the center of the image.

PRODUCTS





PRODUCT OFFERING

PROCESSES, SERVICES & SPECIFICATIONS

BRIGHT BARS

PROCESSES	PROFILE	OPERATIONS	RANGE	TOLERANCES		OTHER SUPPLY CONDITIONS
Cold drawing / Peeling Cut to length Eddy Current (Rotating and Statical)	Round ●	Drawing + C Peeling +SH Cut to length Diameter Length	10 - 42 mm 10 - 41 mm 10 - 28 mm 150 - 7000 mm	Cold drawing /Peeling Cut to length Standard Special	up to h8 +20 mm ±0,5 mm	Length 150 to 7.000 mm Straightening up to 0,5 mm/m Chamfered both sides (0,5mm to 5mm), 30° - 45° Bundles 500 kg to 2.500 kg Technical conditions EN 10277-1-5
Cold drawing / Peeling Cut to length Eddy Current (Rotating and Statical)	Hexagonal ⬡	Drawing + C Cut to length Diameter Length	19 - 32 mm 19 - 28 mm 150 - 7000 mm	Cold drawing /Peeling Cut to length Standard Special	up to h11 +20 mm ±0,5 mm	Wooden boxes Seaworthy packageing



MATERIALS, COMPOSITION, APPLICATIONS

CARBON STEEL

Applications: Shock absorbers, Shafts, etc.



			CHEMICAL COMPOSITION								
EN 10277-2	Nº material	SAE	%C	%Mn	%Si	%P	%S	%Cr	%Mo	%Ni	%Cu
C15R	1.1140	1015	0,12-0,18	0,30-0,60	0,15-0,40	0,035max	0,020-0,035	0,40 max	0,10 max	0,40 max	0,30 max
C35	1.1180	1035	0,32-0,39	0,50-0,80	0,10-0,40	0,035max	0,020-0,040	0,40 max	0,10 max	0,40 max	0,30 max
C40	1.1189	1040	0,37-0,44	0,50-0,80	0,10-0,40	0,035 max	0,020-0,040	0,40 max	0,10 max	0,40 max	0,30 max
C45	1.1201	1045	0,42-0,50	0,50-0,80	0,10-0,40	0,035 max	0,020-0,040	0,40 max	0,10 max	0,40 max	0,30 max

STABILIZER BARS AND TORSION BARS

Applications: Stabilizer Bars and Torsion Bars for Automation

			CHEMICAL COMPOSITION					
EN 10089/10083	Nº material	SAE	%C	%Mn	%Si	%P	%S	%Cr
55Cr3	1.7176	5155	0,52-0,59	0,70-1	0,40 max	0,025 max	0,025 max	0,70-1,00
28Mn6	1.1170	1330	0,25 - 0,32	1,40 - 1,65	≤0,40	≤0,03	-	≤0,40



COIL SPRINGS

Applications: Coil Springs

			CHEMICAL COMPOSITION						
EN 10089	Nº material	SAE	%C	%Mn	%Si	%P	%S	%Cr	%V
54SiCr6	1.7102	9254	0,51-0,59	0,50-0,8	1,20-1,60	0,025 max	0,025 max	0,50-0,80	0,10-0,20
54SiCrV6	1.8152	50B60	0,51-0,59	0,50-0,8	1,20-1,60	0,025 max	0,025 max	0,50-0,80	
61SiCr7	1.7108	9262	0,57-0,65	0,70-1	1,60-2,00	0,025 max	0,025 max	0,20-0,45	
60SiCrV7	1.8153	6150	0,56-0,64	0,70-1	1,50-2,00	0,025 max	0,025 max	0,20-0,40	0,10-0,20
51CrV4	1.8159		0,47-0,55	0,70-1,1	0,40 max	0,025 max	0,025 max	0,90-1,20	0,10-0,25



HARDENING AND TEMPERING STEEL

Applications: Rotors, Shafts, Pinion gears



			CHEMICAL COMPOSITION							
EN 10277-5	N° material	SAE	%C	%Mn	%Si	%P	%S	%Cr	%Cu	%B
34Cr4 (+A+C)	1.7033	5130	0,30-0,37	0,60-0,9	0,30 max	0,025 max	0,025 max	0,90-1,20	0,25 max	0,0008-0,0050
41CrS4 (+A+C)	1.7039	5142	0,38-0,45	0,60-0,9	0,30 max	0,025 max	0,020-0,040	0,90-1,20	0,25 max	
41Cr4 (+A+C)	1.7035	5140	0,38-0,45	0,60-0,9	0,30 max	0,025 max	0,025 max	0,90-1,20	0,25 max	
42CrMoS4 (+A+C)	1.7225	4142	0,38-0,45	0,60-0,9	0,30 max	0,025 max	0,025 max	0,90-1,20	0,25 max	
36CrB4	1.7077	50B40	0,34-0,38	0,70-1	0,30 max	0,025 max	0,025 max	0,90-1,20	0,25 max	
20MnB4	1.5525	1049	0,18-0,23	0,90-1,2	0,30 max	0,025 max	0,025 max	0,30 max	0,25 max	

FREE CUTTING

Applications: Machined elements for various applications in mechanical engineering and automotive components.



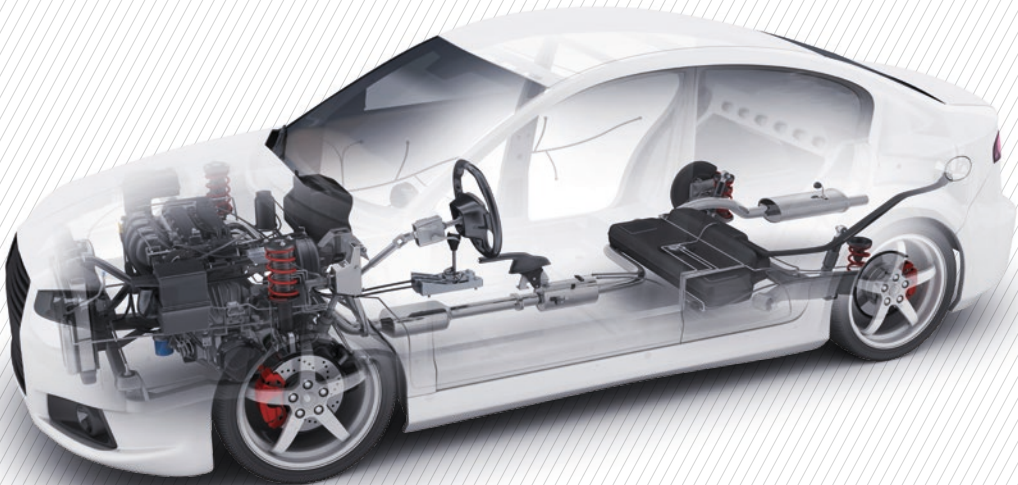
			CHEMICAL COMPOSITION						
EN 10277-3	N° material	SAE	%C	%Mn	%Si	%P	%S	%Pb	
11SMn30	1.0715	1215	0,14max	0,90-1,30	0,05 max	0,11 max	0,27-0,33	0,20-0,35	
11SMnPb30	1.0718	12L14	0,14max	0,90-1,30	0,05 max	0,11 max	0,27-0,33		
C45Pb	1.0504		0,42 - 0,50	0,50 - 0,80	0,10 - 0,40	0,020 - 0,040	-	<0,40	
36SMnPb14	1.0765	1137	0,32-0,39	1,30-1,70	0,40 max	0,06 max	0,10-0,18	0,15-0,35	
44SMn28	1.0762	1144	0,40-0,48	1,30-1,70	0,40 max	0,06 max	0,24-0,33	0,15-0,35	
44SMnPb28	1.0763		0,40-0,48	1,30-1,70	0,40 max	0,06 max	0,24-0,33		
46S20	1.0727	1146	0,42-0,50	0,70-1,10	0,40 max	0,06 max	0,15-0,25		
46S20Pb	1.0757		0,42-0,50	0,70-1,10	0,40 max	0,06 max	0,15-0,25	0,15-0,25	

CASE HARDENING STEEL

Applications: Shafts, Pinion gears, etc.



			CHEMICAL COMPOSITION								
EN 10277-4	N° material	SAE	%C	%Mn	%Si	%P	%S	%Cr	%Al	%Cu	%Pb
16MnCrS5	1.7139	5115	0,14-0,19	1,00-1,3	0,15-0,40	0,025 max	0,020-0,040	0,80-1,1		0,40 max	
16MnCr5 (DBL4027)	1.7139+Al		0,14-0,19	1,00-1,3	0,15-0,40	0,025 max	0,020-0,040	0,80-1,1	0,020-0,04	0,40 max	
16MnCrS5Pb	1.7139+Pb		0,14-0,19	1,00-1,3	0,15-0,40	0,025 max	0,020-0,040	0,80-1,1		0,40 max	0,20-0,35





GLOBAL BRIGHT BARS

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