

## **DESCRIPTION**

These steels consist of lower carbon materials with some alloying, especially chromium. This range of rolls is capable of a higher strength and wear resistance than is possible with lower alloy steels and the higher carbon grades in particular are capable of good surface finish. The rolls are supplied with a carbon content of up to 1.4% and are heat treated to give a hardness which is normally between 515 and 590 LE.

The lower carbon grades will have a structure consisting of ferrite and fine pearlite which, as the carbon content is raised, changes first to a fully pearlitic structure and then to one containing free carbide in a matrix of fine pearlite for the highest carbon materials.

Alloy cast steel can be used in heavy duty applications such as slabbing, blooming and heavy section mills but the improved wear resistance of the high carbon grades makes them suitable for use in medium section mills as well as roughing rolls for flat products.

## **DEPTH OF HARDNESS** 90 . 85 -80 75 70 Hardness Shore 65 60 55 50 45 40 . 35 -30 25 Surface Discard

APPLICATIONS						
Product	Type of Mill	Position				
Slabs	Universal and High Lift	Horizontal and Vertical				
Blooms	2 and 3 High	All Positions				
Plate	2 High	Roughing				
Sheet	2 and 3 High	Roughing				
Wide Strip	2 and 4 High	Roughing				
Beam Blanks	2 High					
Billets	2 and 3 High	Roughing				
Billets	Continuous	Roughing				
Heavy Section and Rail	2 and 3 High	Roughing, Intermediate and Finishing				
Medium Section	2 and 3 High	Roughing				

TYPICAL MECH. PROPERTIES							
	N/mm2						
Property	Low Carbon	High Carbon					
Tensile Strength	750	550					
Bending Strength	1300	1000					

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AIM CHEMISTRY (WT%)									
Code	Leeb E	Shore C	С	Si	Mn	Ni	Cr	Мо	
A3	515/545	38-43	0.6/0.7	0.3/0.8	0.5/1.0	0.5max	0.8/1.4	0.1/0.5	
A4	525/560	40-45	0.7/0.8	0.3/0.8	0.5/1.0	0.5max	0.8/1.4	0.1/0.5	
A5	525-560	40-45	0.8/1.0	0.3/0.8	0.5/1.0	0.5max	0.8/1.4	0.1/0.5	
A6	530-565	40-46	1.0/1.2	0.3/0.8	0.5/1.0	0.5max	0.8/1.4	0.1/0.5	
A7	530-565	40-46	1.2/1.4	0.3/0.8	0.5/1.0	0.5max	0.8/1.4	0.1/0.5	

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