

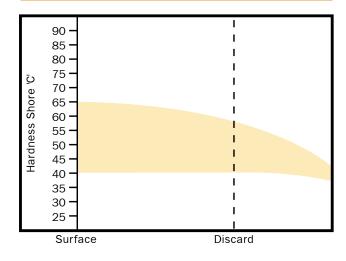
DESCRIPTION

SG Pearlitic Chill rolls are basically an indefinite chill type of roll deriving good wear resistance from a combination of free carbide and hard matrix. However, the graphite is changed from flake to nodular in form. The internal notch effect of nodular graphite is relatively small and therefore SG rolls have a much higher strength and allow the use of an iron roll in applications which would represent too high a duty for a flake graphite quality.

Their indefinite chill characteristics give the rolls good hardness penetration so that they are suitable for small to medium sections and billets although they can also give good results when rolling flat products.

APPLICATIONS						
Product	Type of Mill	Position				
Plate	2 High	Finishing				
Plate	3 High	All Positions				
Plate	4 High	Roughing and Finishing				
Wide Strip	2 and 4 High	Roughing				
Billet	2 and 3 High	Finishing				
Billet	Continuous	Intermediate and Finishing				
Beams	Universal	Vertical and Edgers				
Medium Sections	2 and 3 High	Intermediate and Finishing				

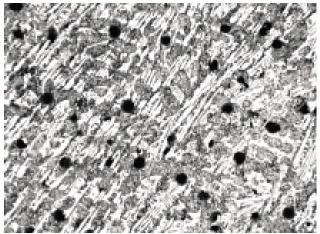
DEPTH OF HARDNESS



TYPICAL MECH. PROPERTIES

Property	N/mm2
Tensile Strength	400
Bending Strength	785

MICROSTRUCTURE X100



AIM CHEMISTRY (WT%)									
Code	Leeb E	Shore C	С	Si	Mn	Ni	Cr	Мо	
SG34A	525/555	40/45	2.8/3.4	1.5/2.5	0.5/0.9	1.2/1.9	0.1/0.5	0.5max	
SG34G	620/650	55/60	3.2/3.5	1.0/1.6	0.5/0.9	2.0/4.0	0.1/0.5	0.2/1.0	
SG34J	555/590	45/50	3.2/3.5	1.0/2.0	0.5/0.9	1.5/2.5	0.1/0.5	0.5max	
SG34M	640/675	58/64	3.2/3.5	1.0/1.6	0.5/0.9	1.5/3.5	0.4/0.8	0.2/1.0	