GRADE: **Hiten Special Steel Base**



DESCRIPTION

Hiten is a more highly alloyed high performance steel base material which was developed to meet the requirements of modern continuous section mills where long production runs are necessary for efficient operation.

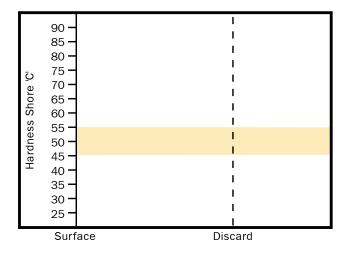
The carbon content can be high which ensures that the structure contains sufficient quantities of hard, wear resistant carbides and the rolls are normally heat treated to produce a matrix of very fine pearlite. The higher alloy content permits the production of higher hardness grades than are possible with normal steel base.

Hiten rolls can be substituted for conventional steel base to give an improvement in output and surface finish. Experience has shown that in many applications where breakage is a problem it can be used as a replacement for the softer grades of chilled iron rolls without significant loss of wear resistance. The rolls require good cooling for best results.

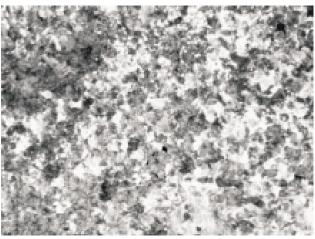
APPLICATIONS						
Product	Type of Mill	ype of Mill Position				
Rails	2 High	Finishing				
Beams	Universal	Horizontal Finishing				
Medium Sections	2 and 3 High	Intermediate & Finishing				
Wide Strip	4 High	Roughing				

TYPICAL MECH. PROPERTIES							
	N/mm2						
Property	Low Carbon	High Carbon					
Tensile Strength	490	395					
Bending Strength	690	540					

DEPTH OF HARDNESS



MICROSTRUCTURE X100



AIM CHEMISTRY (WT%)									
Code	Leeb E	Shore C	С	Si	Mn	Ni	Cr	Мо	
HNS8	560/590	45/50	1.4/1.6	0.3/0.8	0.7/1.2	1.5/2.0	0.8/1.3	0.2/0.6	
HNS10	590-620	50-55	1.8/2.0	0.3/0.8	0.7/1.2	1.5/2.0	0.8/1.3	0.2/0.6	