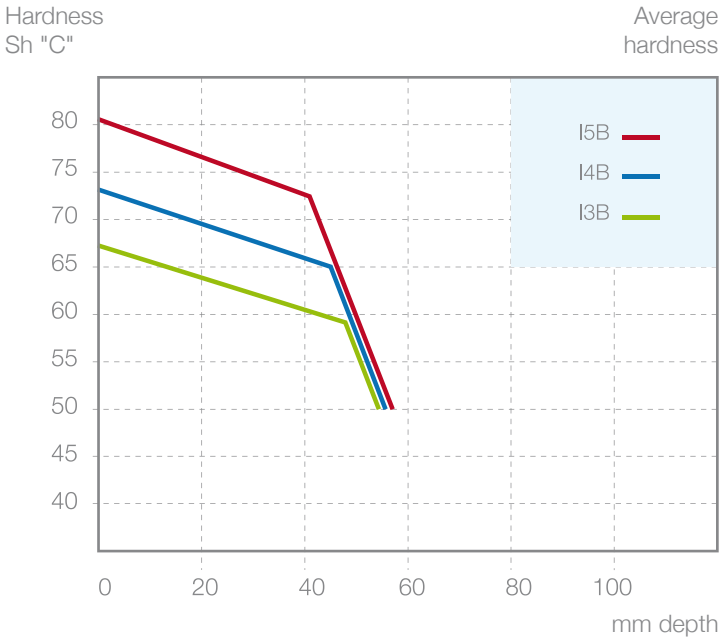
I3B - I4B - I5B

Compound chilled cast iron

Bi-metallic compound chilled cast iron, achieved through a static casting process, is characterised by a pearlitic or acicular matrix shell with free graphite and a low-alloy pearlitic matrix core with excellent mechanical properties. This special structure is ideal for use where chilled cast iron with a high resistance to thermal stresses is required.



COMPOUND CHILLED CAST IRON

I3B
I4B
I5B

500x Nitial 1%

CAST IRON TYPES	% PHYSICAL COMPOSITION						MECHANICAL PROPERTIES		
	C	Si	Mn	Cr	Ni	Mo	Hardness (Sh"C")	RT (N/mm²)	RF (N/mm²)
I3B	3.20 3.80	0.50 1.10	0.30 0.90	0.70 1.30	2.40 3.30	0.10 0.60	65-70	~ 350	~ 550
I4B	3.20 3.80	0.40 1.00	0.30 0.90	0.80 1.30	2.50 3.50	0.10 0.65	68-78	~ 300	~ 500
I5B	3.20 3.80	0.40 1.00	0.40 1.00	0.90 1.40	2.90 3.70	0.10 0.60	76-84	~ 300	~ 500