

Material Combinations for HARDTOP® Bimetals



We approach different requirements in terms of wear resistance by offering selected material combinations in HARDTOP quality. All iron-based materials can be combined depending on the given requirements. Typical materials are:

Base Materials

HARDTOP Quality	Chemical Analysis	Characteristics
HT05L	> 0,07 %C 12,0-13,5 %Cr	excellent toughness properties combined with high strength
HT20L	0,18-0,20 %C 1,53-1,89 %Cr	good toughness properties on impact stress
HT30L	0,28-0,31 %C 1,60-2,00 %Cr	high strength combined with good suitability for welding
HT35L	0,30-0,38 %C 1,40-1,70 %Cr	high strength, even if exposed to thermal shock stress
HT42L	0,38-0,45 %C 0,80-1,20 %Cr	good strength, even if exposed to slightly aggressive media

Wear Materials

HARDTOP Quality	Chemical Analysis	Characteristics
HTV16	1,55-1,75 %C 11,0-12,0 %Cr	good synthesis of wear resistance and toughness
HTV26	2,30-3,00 %C 18,0-22,0 %Cr	very high wear resistance to extreme impact stress
HTV27	2,30-2,90 %C 24,0-18,0 %Cr	very high wear resistance to abrasive stress
HTV30	2,40-3,60 %C 14,0-16,0 %Cr	very high wear resistance to high impact stress
HTV40	3,80-4,20 %C 19,0-21,0 %Cr	highest wear resistance to medium impact stress