

# Screw

## In all variants

### Wear protection on screw flights

Flight land armor	Base alloy	Alloy components	Hardness in HRC	Wear resistance	Corrosion resistance
BC 1	Cobalt base	C, Cr, W	52 – 57	●●●	●●●
BC 6	Cobalt base	C, Cr, Nb, W	38 – 42	●	●●●
BC 12	Cobalt base	C, Cr, W	44 – 48	●●	●●●
BN 56	Nickel base	C, Si, Cr, B, Fe	52 – 56	●●●	●●●
BF 60	Iron base	Cr, V	56 – 60	●●●●	●●
BNW 830	Nickel base	Tungsten carbide	56 – 60	●●●●●	●●●●

Suitability: (● good) to (●●●●● excellent)

### Screw coatings

Coating type	Coating thickness	Coating hardness	Wear resistance	Corrosion resistance
Hard chrome plating	0,020 – 0,035 mm	800 – 1100 HV 0,1	●●●●	●●
Chemical nickel plating	0,015 – 0,025 mm	500 – 600 HV 0,1	●●	●●●●●
PVD, TiN	0,004 mm	2500 HV 0,5	●●●	●●
PVD, CrN	0,004 mm	2100 HV 0,5	●●●	●●●
PVD, CrN multiplayer	0,008 mm	2100 HV 0,5	●●●●	●●●●
BNW 8000	0,10 – 0,15 mm	1000 – 1400 HV 0,2	●●●●	●●●●

Suitability: (● good) to (●●●●● excellent)

These are general recommendations.  
For detailed information on your application, please contact the Bernex sales team.