PerfoCor[®]

STAINLESS STEEL

PerfoCor is a special martensitic stainless steel with Cobalt, Molybdenum and Vanadium additives that can be hardened to very high values. With its high Chromium content and added alloying elements, it provides very high wear resistance and high toughness, as well as corrosion resistance.

APPLICATION AREAS OF PERFOCOR

- Cutting tools for which corrosion resistance is required
- Surgical cutting tools
- Knives used in the food industry
- Roller bearings for which corrosion resistance is required
- Plastic extrusion screws
- Tin lid sealing rolls used in the food industry
- Piston and valve pins found in refrigerator compressors

C %	Cr%	Mo%	V %	Co%	Others
1,05	17,50	1,20	0,10	1,50	+

ADVANTAGES OF PERFOCOR

High hardness values.

PerfoCor is one of the stainless steel grades that can reach the highest hardness values. After heat treatment, it reaches 60 HRC hardness values.

- High wear resistance.

In addition to the high hardness values it has achieved, PerfoCor shows very high wear resistance with alloying elements such as Molybdenum, Cobalt and Vanadium that increase the wear resistance.

High dimensional stability during heat treatment.

Thanks to its high dimensional stability during heat treatment, PerfoCor greatly reduces labor after heat treatment.



ES

performance steel









New generation high performance steels...

444 81 40 www.birlesikmetal.com.tr







Tempering Diagram



PHYSICAL PROPERTIES OF PERFOCOR

Thermal Expansion

Temperature	20°C	100°C	200°C	300°C	400°C	500°C
x10 ⁻⁶ /K	10,4	10,4	10,8	11,2	11,6	11,9

Young's Modulus

	2000	10000	20000	70000	10000
lemperature	20°C	100°C	200°C	300°C	400°C





New generation high performance steels...

444 81 40 www.birlesikmetal.com.tr

BIRLES

performance steels