

FormCut®

COLD WORK TOOL STEEL

FormCut is a cold work tool steel with a ledeburitic structure and containing 12% chromium element. In addition to high wear resistance, it has good toughness at the same hardness value.

APPLICATION AREAS OF FORMCUT

- Forming Dies
- Cutting Dies
- Plaster Molds
- Blowing Molds
- Cold Mill Rollers
- Punches



C%	Cr%	Mo%	V%	Others
1,55	12,00	0,50	0,25	+

ADVANTAGES OF FORMCUT

- **High hardness after heat treatment.**

FormCut reaches a hardness of 60-62 HRC after heat treatment. In this way, it shows high wear resistance.

- **High dimensional stability during heat treatment.**

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

- **High toughness values combined with high wear resistance.**

FormCut provides high toughness with high wear resistance.

- **Compatibility with CVD and PVD coating.**

FormCut is suitable for CVD and PVD coating thanks to its secondary hardenability.



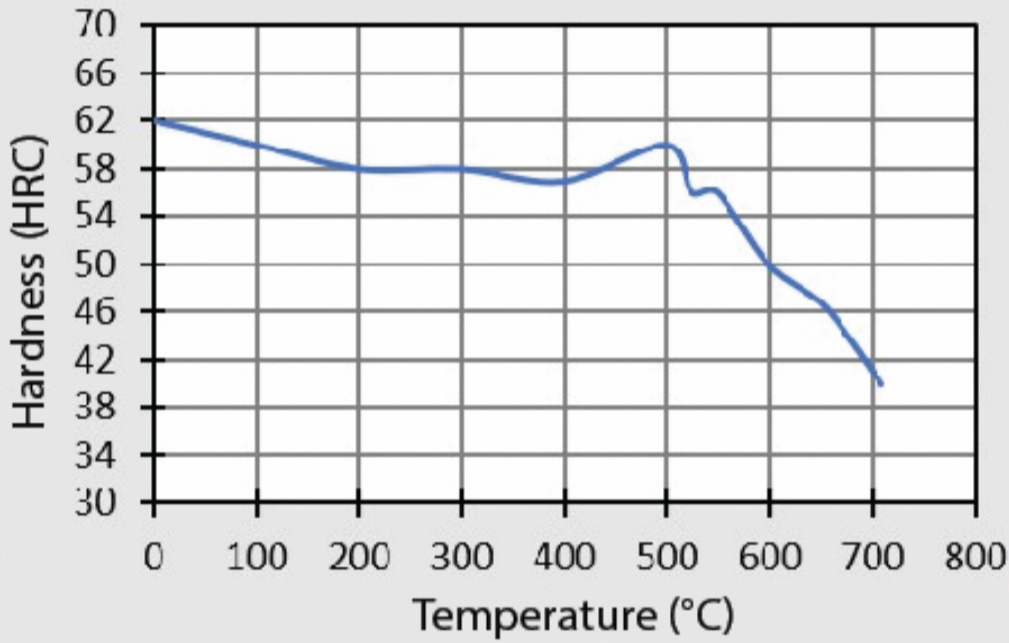
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Heat Treatment Process of FormCut

	Temperature (°C)	Cooling
Annealign	830 - 850	Furnace
Hardening	1050 - 1050	Oil, Furnace
Tempering	See Tempering diagram	Air

Tempering Diagram



Physical Properties of FormCut

Thermal Expansion

Temperature	100°C	200°C	300°C	400°C	500°C
$\times 10^{-6} / K$	10,9	11,3	11,8	12,1	12,6

Young's Modulus

Temperature	20°C
GPa	200

Specific Heat

Temperature	20°C
J/kg.K	460

Thermal Conductivity

Temperature	20°C
W/m.K	23,7