



SteelCon®

High process stability in hard machining HRC ≥50.

The HiPIMS coating material SteelCon® is the second silicon doped HiPIMS coating material from CemeCon and enables economical machining under the extreme conditions of hard machining with first-class surface quality. SteelCon® is highly resistant to wear. High hardness is combined with excellent adhesion. The very homogeneous wear behavior of SteelCon® ensures high process stability. The very high silicon doping layer structure also ensures high thermal stability. As no droplets can form thanks to the HiPIMS process, SteelCon® is also extremely smooth. The tool can dissipate the heat in the chips, and process stability is increased. Excellent surface finishes are achieved, this eliminates the need for reworking the workpieces.

Application example

Tool and mould makers

Material: **1.4028: 52HRC**

Tool: **Ball nose end mill, Ø 6 mm**

$v_c = 207 \text{ m/min}$

$n = 11,000 \text{ U/min}$

$a_p = 0.18 \text{ mm}$

$a_e = 0.18 \text{ mm}$

Cooling: **Emulsion**



Technical data


Coating technology:
HiPIMS

Composition of the coating material:
TiAlSiN-based

Color:
Red-Gold

Max. operating temperature:
1,100°C

Available coating thicknesses

		
≈ 1,5 µm	✓	✓
≈ 3 µm	✓	✓

Talk to an expert

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