

Signature Coating TapCT

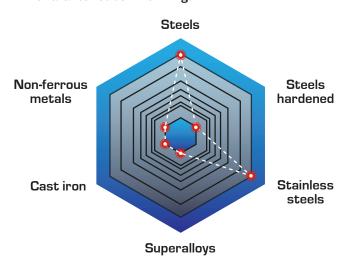
SCIL® coating for tap forming

TapCT is characterised by a very smooth surface thanks to the SPUTTER process SCIL® (SPUTTERED Coating Induced by Lateral Glow Discharge). Thus, during tap forming, the friction between the tool and the workpiece material and the sticking of the material will be reduced, and the process reliability increased. Furthermore, the excellent coating adhesion will increase the performance.

Highlights:

- High process reliability
- Lower machining torque
- High quality of the formed tap

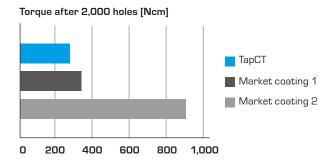
Charakteristics in forming:



Specifications

Color	silver
Nano-hardness [GPa]	28-30
Coefficient of friction [μ] PoD (at RT, 50% humidity)	0.4
Coating thickness [µm]	1–5
Max. service temperature [°C]	700
Coating temperature [°C]	400-450
411 PLUS SCIL	(LGD, -, -, CrTi50 SCIL)

Tap forming in a carbon steel:



Tool: HSS forming tap M6x1 Workpiece material: carbon steel Coolant: emulsion vc = 20 mm/min; depth of the hole 9.0 mm Source: Asia tool manufacturer

