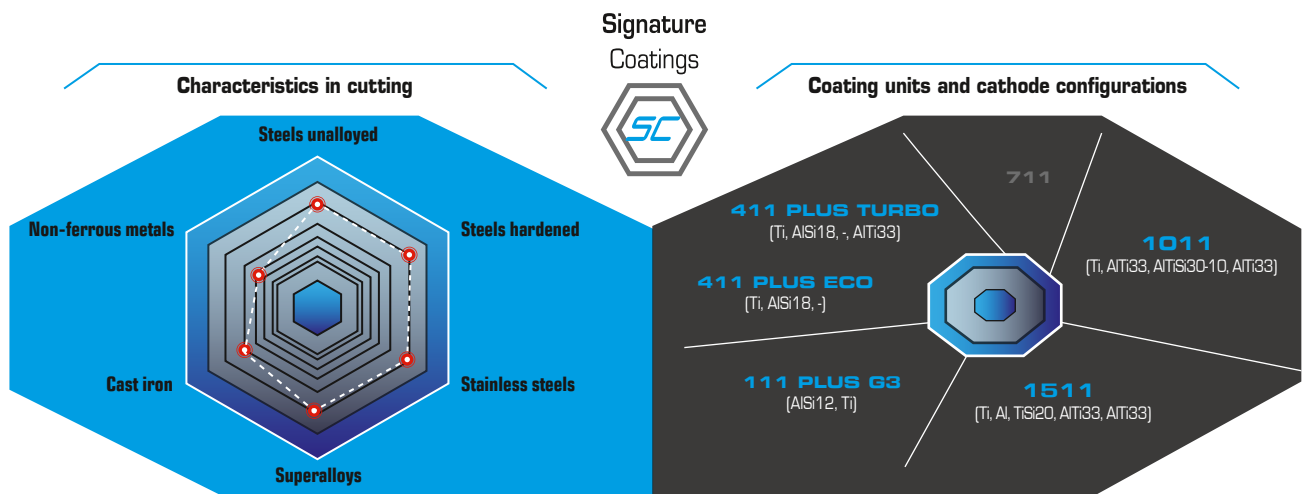


## UNIVERSAL NANOCOMPOSITE FOR MILLING AND DRILLING C-STEELS

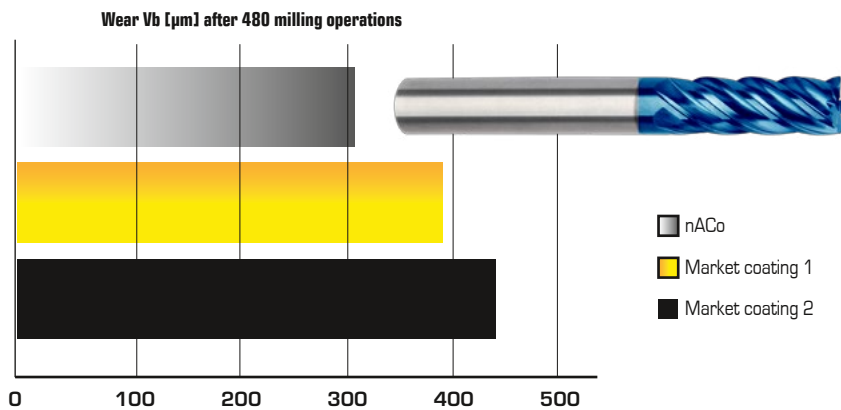
nACo is one of PLATIT's best-known coating brands. It has proven itself on the market for over 20 years. nACo is an AlTiSi-based nanocomposite coating and performs best in the field of milling and drilling C-steels. The use of nACo provides excellent adhesion and good performance even for more unusual applications such as milling with coated ceramic tools and CBN tools.

### Highlights:

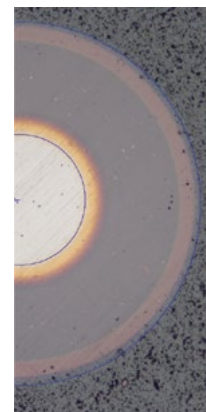
- Nanocomposite with Si content
- High temperature stability
- Good hardness
- Reduces adhesion to cutting-edges
- Versatile application possibilities



### Milling in SUS316 with solid carbide end mill D4:



Tool: solid carbide end mill; D4; z = 4; cutting length = 6 mm  
 Workpiece material: SUS316  
 Coolant; ap = 0.1 mm; ae = 4 mm; vc = 100 m/min; n = 8000 rpm; fz = 0.0625 mm/z;  
 f = 0.2500 mm/rot; vf = 2000 mm/min  
 Source: Chinese tool manufacturer



**Calo 3 layers**

AlTi(Si)N is deposited on a TiN adhesion layer

### Specifications

**Color** blue violet

**Nano-hardness [GPa]** 39 - 41

**Coefficient of friction [µ] PoD (at RT, 50 % humidity)** 0.4

**Coating thickness [µm]** 1 - 4

**Max. service temperature [°C]** 1200

**Coating temperature [°C]** 400 - 500