

Signature Coating nACo

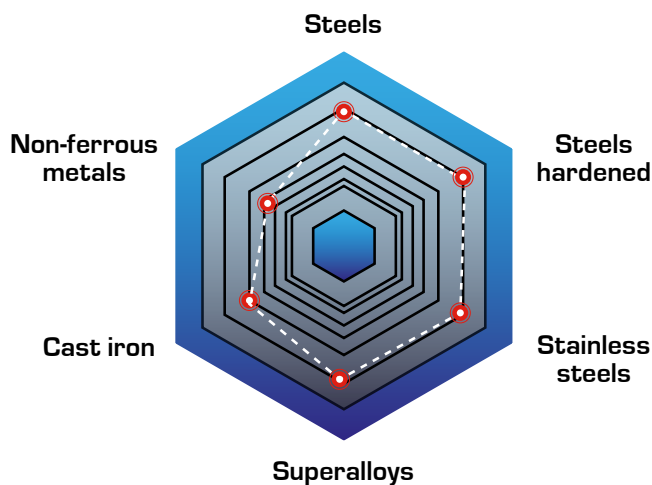
Universal nanocomposite for milling and drilling C-steels

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 between cutting edges and work-piece
- Versatile application possibilities

Characteristics in cutting:

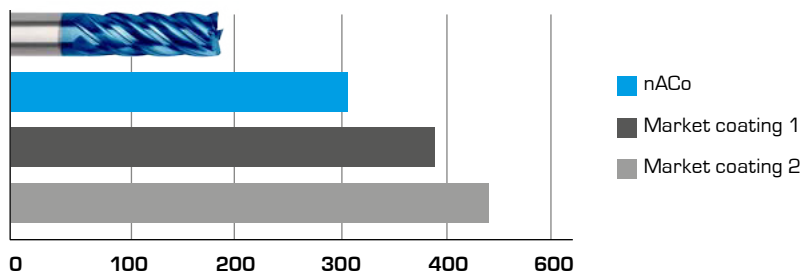


Specifications

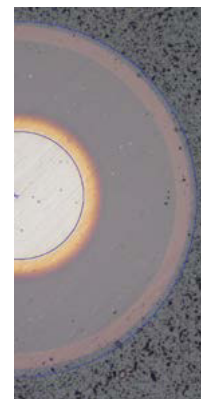
Color	blue violet
Nano-hardness [GPa]	39–41
Coefficient of friction [μ] PoD (at RT, 50% humidity)	0.4
Coating thickness [μm]	1–4
Max. service temperature [°C]	1,200
Coating temperature [°C]	400–500
111 PLUS G3	(AlSi12, Ti)
411 PLUS ECO	(Ti, AlSi18, -)
411 PLUS TURBO	(Ti, AlSi18, -, AlTi33)
1011 G4	(TiSi20, AlTi40, TiSi25, AlTi40)

Milling in SUS316 with solid carbide end mill D4:

Wear Vb [μm] after 480 milling operations



Werkzeug: Vollhartmetall-Schaftfräser; D4; z = 4; Schnittlänge = 6 mm
 Werkstückmaterial: SUS316
 Kühlmittel; ap = 0,1 mm; ae = 4 mm; vc = 100 m/min; n = 8000 U/min; fz = 0,0625 mm/z;
 f = 0,2500 mm/U; vf = 2000 mm/min
 Quelle: Werkzeughersteller



Calo 3 layers

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