

## **BALIQ TISINOS PRO**

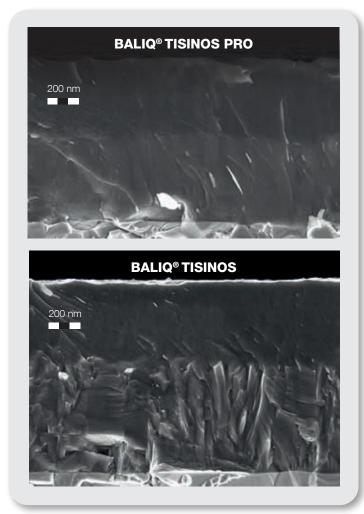
Maximum performance for hardened and stainless steels, and high-temperature alloys



**BALIQ TISINOS PRO – higher process reliability** for difficult-to-cut materials

Cutting tools that machine hardened steels or high-temperature alloys require a coating specifically designed to withstand high thermal stress caused by heavy loads. With its increased toughness and improved wear resistance, BALIQ® TISINOS PRO is the preferred coating for demanding hard machining up to 70 HRC.

The AITiSiN-based coating is applied using our advanced S3p technology, which produces particularly smooth and defect-free surfaces, resulting in longer tool life and improved reliability between different cutting edges of the same tool.





## BALIQ® TISINOS **BALIQ® TISINOS PRO** Tool Endmill Ø 10.0 mm Steel 1.2379, X155CrVMo121 Workpiece (AISI D2, JIS SKD11) 58 HRC Cutting $v_c = 210 \text{ m/min}$ parameters $f_z = 0.12 \text{ mm/tooth}$ $a_n = 3 \text{ mm}$ $a_{e} = 0.30 \text{ mm}$ dry Oerlikon Balzers cutting laboratory Source

## **Outstanding coating properties**

BALIQ® TISINOS PRO	Coating material	Coating hardness H <sub>IT</sub> [GPa]	Compressive stress [GPa]	Max. service temperature [°C]	Coating temperature [°C]	Coating colour
	AlTiSiN-based	38 +/-1	-3.1 +/-1	1,000	< 500	bronze

100

All given data are approximate values and depend on application, environment and test conditions.

## Discover how BALIQ TISINOS PRO boosts performance. Contact us now!