eifeler

SUCASLIDE®-T

Friction reduced. Performance maximized.

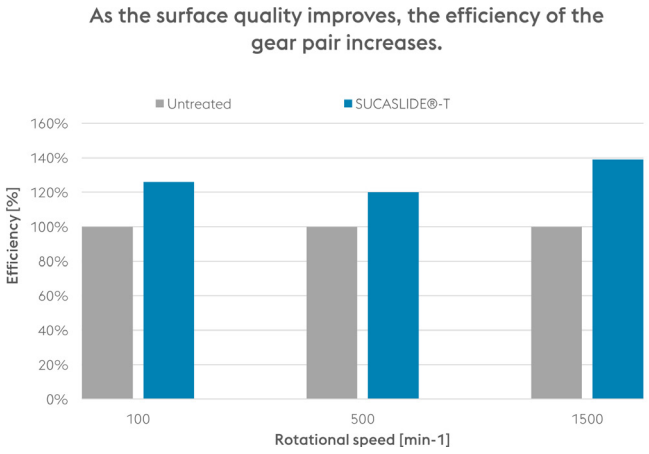
SUCASLIDE®-T is an advanced DLC coating with specifically increased hardness and greater layer thickness compared to the SUCASLIDE® coating.

The specific layer structure shifts the maximum load under mechanical stress outside the interface area. This significantly reduces the risk of stress cracks and layer spalling, which leads to increased operational safety and service life, especially in highly stressed applications.

SUCASLIDE®-T is characterized by excellent sliding properties that significantly exceed those of conventional hard PVD coatings. SUCASLIDE®-T can demonstrate its strengths in both dry machining and applications with minimum quantity lubrication.

The coating is particularly suitable for low-tempered steels and, due to the low process temperature of around 200°C, can also be deposited on temperature-sensitive substrates.

FZG GEAR TEST



COATING PROPERTIES

Hardness H_{IT}	14 ± 3 GPa (~ 1,400 HV_{IT})
Coating thicknesses	1 – 4 µm
Maximum operating temperature	< 300 °C / < 572 °F
Coefficient of friction against steel	< 0.2
Roughness on polished sufaces	R_a: 0.02 ± 0.01 µm R_z: 0.14 ± 0.07 µm
Residual stress	-1.5 ±1 GPa
Color	Anthracite
Coating composition	a-C:H:Me

ADVANTAGES

- Good running properties
- Low coefficient of friction
- Good wear resistance
- Suitable for low-tempered steels

APPLICATIONS

Components	» Gears » Gear boxes
Forming	Cutting non-ferrous metals

voestalpine eifeler Coating GmbH
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ONE STEP AHEAD.