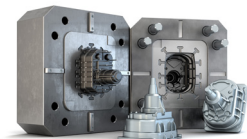


TIGRAL
AlTiCrN

TIGRAL



Tigral coating, based on **AlTiCrN**, is the Lafer solution for die-casting aluminium, zamak and magnesium. Its composition is ideal for solving **metallization problems**. It allows you to combine the **high wear resistance**, typical of coatings containing cormo, with that at high temperatures, typical of coatings containing aluminium.

MAIN APPLICATION

- Die casting of aluminum alloys, Zamak, magnesium alloys

COATING PROPERTIES

VISUAL FEATURES

Surface



| Values | Measurement parameters of color According to ISO11664-4 |
|----------------|--|
| 55 ÷ 60 | L* Brightness |
| 0 ÷ 1 | a* Color coordinate |
| 0 ÷ 1 | b* Color coordinate |

NOTES:
 Non-functional requirement, indicative values

PHYSICAL FEATURES

| Measure | Values | Measurement |
|---------------------------|----------------|--|
| Coating thickness* | 3 ÷ 5 µm | Calotest on sample |
| Coating hardness*** | 2800 ± 200 HV | Nanoindentation 20mN/20s |
| Roughness Ra** | 0,07 ÷ 0,09 µm | From sample with Ra < 0,03µm |
| Coefficient of friction** | 0,6 ÷ 0,7 | Pin on disk, dry, against Al ₂ O ₃ |

NOTES:

- * depends on the application.
- ** depends on the test conditions.

TECHNOLOGICAL FEATURES

| | |
|-----------------------------|------------|
| Coating technology | Arc |
| Chemical composition | AlTiCrN |
| Structure | Multilayer |
| Coating temperature | 420°C |
| Maximum working temperature | 1100°C |
| Biocompatibility | - |
| Food compatibility | - |