

OX-Ti

Decorative Titanium Anodizing

OX-Ti is a surface anodizing treatment for titanium alloys which creates a thin compact titanium oxide layer.



VARIOUS OBTAINABLE COLOURS

Various bright colours can be obtained which are scratch resistant. These are obtained by self-colouring the titanium oxide layer without using pigments or inks. The colours can be used as colour codes to quickly identify similar parts.

ANTI-SEIZE

Permits eliminating the seize problem typical of titanium alloys.

BIOCOMPATIBLE

Thanks to its high chemical resistance, the biological compatibility of the layer and the absence of pigments, medical parts can also be treated.

TECHNICAL SPECIFICATIONS

COMPOSITION

The OX-Ti treatment transforms the surface of the titanium alloy into a compact layer of titanium oxide. The composition largely depends on the initial alloy. Layer colour is obtained by self-colouring. No pigments or inks are used.

APPLICABLE STANDARDS

ROHS CONFORMITY

✓ RoHS conform.
No restricted-use substances beyond maximum tolerated concentrations.

REACH CONFORMITY

✓ REACH conform. No SVHC in quantities greater than 0.1% by weight.

ANODIZABLE ALLOYS

All commonly used titanium alloys.

COATING THICKNESS

TYPICAL THICKNESS, ACCORDING TO REQUIRED COLOUR
< 1 µm

OBTAINABLE COLOURS

	FUCHSIA
	VIOLET
	BLUE
	LIGHT BLUE
	LIGHT YELLOW
	GOLDEN YELLOW
	GREY

WEAR RESISTANCE

High colour durability thanks to the resistance to light wear and scratching of the titanium oxide layer.

CHEMICAL RESISTANCE

Excellent chemical resistance, typical of titanium alloys.

CHEMICAL COMPATIBILITY

Approximate values of compatibility with the coating environment.

The actual resistance to the environment must in any case be tested in the field.

- ✓ Hydrocarbons (e.g. petrol, diesel fuel, mineral oil, toluene)
- ✓ Alcohols, ketones (e.g. ethanol, methanol, acetone)
- ✓ Neutral saline solutions (e.g. sodium chloride, magnesium chloride, brine)
- ✗ Halogenidric and reducing agents (e.g. sulphuric acid, hydrochloric acid, oxalic acid)
- ✓ Oxidizing acids (e.g. nitric acid)
- ✓ Diluted bases (e.g. diluted sodium hydroxide)
- ✓ Oxidizing bases (e.g. sodium hypochlorite)
- ✓ Concentrated bases (e.g. concentrated sodium hydroxide)

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