

## 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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