

# POLIGRAT- PRODUCTINFORMATION

## TITAN COLOR I



Coloring of titanium and titanium alloys by anodising

Colored titanium surfaces have significantly improved corrosion resistance compared to uncolored surfaces.

In addition to decorative applications and marking, implants are rendered passive and biocompatible by coloring in medical technology.

### Properties and effect

**TITAN COLOR I** is a process for coloring by anodising for producing pure interference colors for titanium and titanium alloys. The anodising produces an oxide layer of controlled layer thickness electrolytically on titanium surfaces. Depending on the layer thickness of the oxide layer, rainbow colors are formed by light interference on the surfaces.

Under the action of electrolyte and direct current, the material is oxidised on the surface and a firmly adherent and closed oxide layer is formed. Anodising with **TITAN COLOR I** does not remove any material from the surface of a workpiece and does not apply any layers on the surface.

### Application

**TITAN COLOR I** is supplied ready for use and used in immersion bathing. The work pieces can be processed on a jig. Small workpieces can also be colored in a basket. Care must be taken that the workpieces are kept in sufficient contact with the basket while anodising.

**TITAN COLOR I** and the rinsing water from the process are strongly acidic and are to be treated and disposed of according to the statutory laws and regulations.

### Supply

Packing units:

- Single-use canister 30 kg (26 l)
- Barrel 223 kg (200 l)



With **TITAN COLOR I** colored titanium workpieces

### Technical data

Specific weight/density:	1.114 g/ml
Application:	undiluted
Working temperature:	+20 to +40°C
Anodising voltage:	up to 120 V
Current density:	max. 0.1 A/dm <sup>2</sup>

#### Your advantage

- pure interference colors
- biocompatible and corrosion-resistant
- stable process
- controlled reproducible