

Quality comes out on top!

That's what we are positive about!

Your competent partner for colour anodisation of titanium



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Highest quality standards

Brilliant colours

You await coatings with brilliant colours and high colour fidelity either color constancy?

Accuracy of fit

The accuracy of fit of your products is an important criterion for you?

Individual solutions

You need an individual solution for high-quality?

Reliability

You expect fast and reliable service?

On the basis of our experience for many years in the field of colour anodisation of titanium (type-III-anodisation) we coat titanium materials according to the requests of our customers. In close collaboration with you we fulfill these challenges. Try out our quality and service in form of a treatment of your product free of charge.

You request for highest quality standards?

We do as well!

Our company is certified to **DIN EN ISO 13485** and meets the requirements of **FDA-guidelines** QSR-standard FDB21 CFR 820 (not certified).

The current certificates can be found on our website at www.helora.de

Management:

Heike Ratka

Nationally certified engineer
subject electroplating
Foreman electroplating
Certified business economist

Lothar Ratka

Nationally certified engineer
subject electroplating
Foreman electroplating

Prüfprotokoll Erstbemusterung		HELORA	
Formular-P03 Rev. 1 (01.06.2017)		8.11.1	
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Auftraggeber:		Bearbeiter:	
		HELORA Oberflächentechnik GmbH In der Bunte 3 73671 Göggingen	
Produktbeschreibung:			
Bezeichnung:		Produktgruppe / Kennzeichnungsmerkmal:	
Artikel-Nr.:		Bestell-Nr.:	
Fertigungsdaten:			
Auftrag- / Charge-Nr.:		Fertigungsdatum:	
Fertigungsverfahren:		Fertigungsart:	
<input type="checkbox"/> Anodisieren <input type="checkbox"/> LBM-Beizen		<input type="checkbox"/> Typ II - Anodisieren <input type="checkbox"/> alkalisch	
Kategorie:		Farbcode:	
<input type="checkbox"/> Vollfarbung <input type="checkbox"/> Teilfarbung		Farbmuster:	
Prüfbericht:			
Prüfdatum:		Prüfer / Anfertiger:	
Prüfkriterien:			
<input type="checkbox"/> Optische Kontrolle (Farbton, Kristallstruktur, Kristallgröße)		<input type="checkbox"/> I.O. <input type="checkbox"/> n.I.O.	
<input type="checkbox"/> Kontrolle Bohrer / Spindel		<input type="checkbox"/> I.O. <input type="checkbox"/> n.I.O.	
<input type="checkbox"/> Farbkontrolle (Farbabweichung, Glanzgrad)		<input type="checkbox"/> I.O. <input type="checkbox"/> n.I.O.	
<input type="checkbox"/> Kontrolle (Farbabweichung)		<input type="checkbox"/> I.O. <input type="checkbox"/> n.I.O.	
<input type="checkbox"/> Oberflächenbeschaffenheit (Prüfdatum kundenseitig bestätigt)		<input type="checkbox"/> I.O. <input type="checkbox"/> n.I.O.	
Prüfentscheid:			
<input type="checkbox"/> Freigabe		<input type="checkbox"/> keine Freigabe	
Anmerkungen:			
Lieferdatum:			
Lieferanten-Nr.:		Lieferdatum:	
Gewicht (gg) WE:			
Datum		Unterschrift Prüfer	
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Kundenseitige Freigabe:			
Prüfentscheid:		<input type="checkbox"/> Freigabe <input type="checkbox"/> Freigabe unter Auflagen <input type="checkbox"/> keine Freigabe	
Anmerkungen:			
Datum Freigabe		Unterschrift Kunde	

Anodisation of titanium

Our own developed treatments include complete as well as partly colouring of:

- (bone)plates and screwimplants
- dentist equipment and accessoires
- dental implants
- tweezers



The process

The colouring of titanium is an electrochemical process for surface finishing. Simultaneously the colouring offers the marking of parts and components. Both complete colouring and partly colouring is practicable.

In combination with air titanium builds up an oxide layer on its surface, which extremely increases the corrosion-resistance.

A special procedure removes this layer and builds up a new surface by a galvanical process. The components are treated anodic with direct current in a special acid mixture ("Anodisation").

With it oxygen is emerged that directly combines with the titanium. By adjusting the electrical potential the thickness of the layer can be influenced. The layer's thickness is significant responsible for the colour scheme due to light refraction ("Interference-effect").

Depending on the surface roughness, brilliant colours of silver, bronze, blue, gold, pink and green in different colour gradations are possible.

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