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## 1 Scope

This engineering specification defines requirements for Cr(VI)-free passivated zinc coatings on ferrous materials and steel parts. It also prescribes the inspections of the plating or surface protection. This engineering specification is a reference document and does not relieve the supplier of the responsibility to carry out other tests and inspections in order to guard the quality of the product.

## 2 Applicable

1. Standard Burgaflex CrVI-free- plating and surface protection of tubing, field attachable fittings (Burgaclip ®), crimp fittings and (threaded) components.
2. Burgaflex CrVI-free- plating **PLUS**. Surface protection of tubing, field attachable fittings (Burgaclip ®), crimp fittings and (threaded) components with a topcoat
2. Zink Nickel plating and surface protection of tubing, field attachable fittings (Burgaclip ®), crimp fittings and (threaded) components (\*)

(\*) Only available at request

## 3 Responsibility

Engineering is responsible for the maintenance and updating of this document.

## 4 Characteristics / Appearance

1. Standard Burgaflex CrVI-free plating

Burgaflex standard plating: Cr(III) dignified blue passivation.

- Layer thickness 8 - 11 µm.
- The appearance of the plating has a silvery luster, with a bluish of blue iridescence.
- Plating with CrVI-free passivation
- Corrosion behaviour: 96 hours for white rust and 240 hours for red rust after a salt spray test according to DIN 50021SS

2. Burgaflex CrVI-free plating **PLUS**

Burgaflex standard plating: Cr(III) dignified blue passivation **plus** topcoat

- Layer thickness 8 - 11 µm.
- The appearance of the plating has a silvery luster, with a bluish of blue iridescence.
- Plating with CrVI-free passivation plus topcoat
- Corrosion behaviour: XX hours for white rust and XX hours for red rust after a salt spray test according to DIN 50021SS

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Checked: Quality Manager	
Approved: Managing Director	

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### 3. Zink Nickel plating

At request a zink nickel Fe // ZnNi with A-p passivation.

-Layer thickness 8 - 11 µm.

-The appearance of the plating has a dark grey luster.

-Corrosion behaviour: 240 hours for white rust and 720 hours for red rust after a salt spray test according to DIN 50021SS

The coating must exhibit no pores, cracks, damage or other flaws that impair corrosion protection and/or specified appearance.

### 5. Salt Spray Test

The Salt Spray test is carried out according DIN 50021 SS in a calibrated Salt Spray Chamber. An atomized Solution of 5% NaCl in demineralized water of 35 ° +/- 2 °. (pH 6,5-7,2). Received atomization between 1 and 2 ml per hour per 80 cm<sup>2</sup>. Review of the parts every 24h.

### 6. Attachments

No attachments with this specification. Data sheets available on request.