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## **KORYNT 5115**

### **TECHNICAL DATA SHEET** **TL 186/2001**

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#### **Product characteristics**

**KORYNT 5115 is an** aqueous solution of alkali metal phosphates.

#### **Applications**

The product is used as a phosphating agent for iron, steel, zinc and aluminium that degrades treated materials in a single working process. It is intended for enhancement of corrosion resistivity and adhesiveness of varnishes to metallic surfaces and for preventing rust from permeating under a varnish layer. It can be applied by immersion as well as spraying.

#### **Product Features**

**KORYNT 5115** is flavescent coloured, low-viscous liquid that can be mixed with water in any ratio.

**KORYNT 5115** must comply with the following quality characteristics:

| Quality characteristic                 | Value        | Methodology of assessment |
|--|--------------|---------------------------|
| Viscosity at 23 °C (mPa.s)             | 4 to 10      | PN-ZM 186/2001            |
| Density at 23 °C (kg.m <sup>-3</sup> ) | 1230 to 1260 | ČSN EN ISO 2811-1         |

#### **Directions for Use**

**KORYNT 5115** is very soluble in cold water. To apply the product by immersion, we usually use 15 kg of the product for 1,000 litres of a bath. To apply the product by spraying, we use from 7 to 9 kg of the product for 1,000 litres of a bath. Immersion time is from 2 to 3 minutes, spraying time is from 1 to 3 minutes. Operating temperature of an application solution is from 40 to 60 °C.

As the operating bath is "being depleted" during its application - content of the active component of the agent is decreasing, it is necessary to monitor the value of this content. This monitoring is usually performed by determining the alkaline concentration of the bath.

#### **Determination of the alkaline concentration of the bath:**

Using a pipette, move 10 ml of the operating bath to a 250 ml volumetric flask and dilute it with 40 ml of distilled water. Add several drops of phenolphthalein indicator and titrate with a volumetric solution  $c(\text{NaOH}) = 0.1 \text{ mol.dm}^{-3}$  until it becomes violet. Consumption of this volumetric solution  $c(\text{NaOH}) = 0.1 \text{ mol.dm}^{-3}$  in ml is the corresponding alkaline concentration of the bath.

Alkaline concentration of the operating bath at concentration of 15 kg of the product per 1,000 litres moves between 5 to 6 points. In case the alkaline concentration drops below the required minimal boundary (usually between 3 to 4 points), it is necessary to add **KORYNT 5115** to the operating bath. Increase in the alkaline concentration by 1 is achieved by adding c. 2 kg of **KORYNT 5115** to 1,000 litres of the bath.

It is necessary to replace the bath with a new one when its colour becomes considerably dark. In case sludge was created in there, it is necessary to filter the bath.

**Packaging & Storage**

**KORYNT 5115** is delivered in 50 l PE cans. Alternatively, it can be delivered in different containers that were discussed and agreed on in advance. Store it in a sealed container in places protected from direct climatic influences. Recommended storage temperature is between +5 to +25 °C. Storing at temperatures below 0 °C does not affect product's application properties.

**Transport**

**KORYNT 5115** is transported by covered vehicles. It is not subject to ADR/RID Regulations.

**Warranty**

Provided the product is transported and stored in accordance with the above written conditions, its warranty is 6 months from the date it was delivered from a warehouse.

**Note**

Data about the product characteristics and its processing were obtained by laboratory measurements and application tests. This technical data sheet can provide solely legal advice without any engagements. Use of the product should be always adjusted to specific conditions.