

RIAG Seal 970

Silicium based black sealer

RIAG Seal 970 is a thin, black sealing agent on the basis of silicium.

Properties

- Thin layers (about 3 μm)
- High corrosion resistance
- Scratch resistant
- Applicable in barrel

Make up

RIAG Seal 970 Additive (density = 1.10 g/mL)

Butyl glycol (density = 0.90 g/mL)

Dipping time

Barrel
500 – 1000 mL/L
200 – 500 mL/L
10 – 20 s

A spin-dry process is used at the barrel application before hardening the layer.

Procedure for a make up

Put **RIAG Seal 970 Additive** in the process tank, add if necessary the required quantity butyl glycol and mix well. Now the bath is ready for operation.

Effluent control and Safety considerations

Protective gear such as face shields and gloves should be worn during bath make up and operation. Chemicals shall not be stored below 10 °C. Spent solution has to be treated and discharged according to local wastewater laws.

Operating conditions

Temperature:	18 – 30 °C (room temperature)
Time:	10 – 20 s
pH-Value:	4 – 6 Frequent control is normally not necessary
Drying:	120 – 160 °C during 20 minutes

Process sequence

1. Zinc or zinc-nickel plating
2. Water rinse (double)
3. Activation for zinc only in nitric acid (0.3 – 1.0 %)
4. Water rinse
5. **RIAG Pass**
6. DI water rinse (double)
7. Dry or blow liquid off
8. **RIAG Seal 970**
9. Drying at 120 – 160 °C during 20 minutes

Analysis

RIAG Seal 970 Additive can be analyzed easily gravimetrically. A scaled sample is dried at 180 °C to a constant weight (approximately 15 minutes) and scaled again. The undiluted product should have a residue of 23 – 25 %.

Liability

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