

Passivations for Zinc-Nickel

The winning choice for colour.

iridescent passivations

black passivations

transparent passivations



Passivation SLOTOPAS ZNC 50

The Passivation SLOTOPAS ZNC 50 produces a colourful iridescent, **chromium(VI)-free** passivation layer with a good corrosion behaviour. The Passivation SLOTOPAS ZNC 50 contains trivalent chrome compounds and is **free of chrome(VI)** and **cobalt**.

Concentrations and operating conditions

		Range
Concentrate SLOTOPAS ZNC 51	[ml/l]	130 - 185
Operating temperature	[°C]	40 - 50
Treatment time	[sec.]	60 - 120
pH range		1,9 - 2,2



Passivation SLOTOPAS ZNB 60

On zinc-nickel coatings Passivation SLOTOPAS ZNB 60 produces a blue, **chromium(VI)-free** passivation layer with a good corrosion protection. This colouration is especially useful if plated parts should be marked. The Passivation SLOTOPAS ZNB 60 contains chromium(III) compounds and is **free of chrome(VI)**, **cobalt** and **fluoride**.

Concentrations and operating conditions

		Range
Concentrate SLOTOPAS ZNB 61	[ml/l]	80 - 170
Concentrate SLOTOPAS ZNB 62	[ml/l]	20 - 30
Operating temperature	[°C]	20 - 30
Treatment time	[sec.]	45 - 120
pH range		3,3 - 3,6



Passivation SLOTOPAS ZN 300

The Passivation SLOTOPAS ZN 300 contains chromium(III) compounds and fluorides and is free of **chrome(VI)** and **cobalt**. On zinc-nickel coatings, black and weakly iridescent passivation layers are generated. Passivation SLOTOPAS ZN 300 is applied in combination with a subsequent post-dip solution, organic sealant or topcoats. With Passivation SLOTOPAS ZN 300 in combination with Post-Dip Solution NT 10 or a corresponding sealant from our

Concentrations and operating conditions

		Range
Concentrate SLOTOPAS ZN 301	[ml/l]	70 - 90
Additive SLOTOPAS ZN 302	[ml/l]	60 - 100
Operating temperature	[°C]	18 - 25
Treatment time	[sec.]	60 - 90
pH range		1,6 - 2,0

SLOTOFIN series, uniform black surface with excellent corrosion resistance can be achieved.

Passivation SLOTOPAS PA 1180

Passivation SLOTOPAS PA 1180 produces a transparent to iridescent bluish **chromium(VI)**- and **cobalt-free** protection layer with a good corrosion behaviour. Passivation SLOTOPAS PA 1180 contains trivalent chrome compounds and is **free of chrome(VI), cobalt and fluoride**. For the further improvement of the corrosion protection, a sealant can be applied additionally. We recommend the products of our SLOTOFIN series.

Concentrations and operating conditions

		Range
Concentrate SLOTOPAS PA 1181	[ml/l]	130 - 170
Treatment time	[sec.]	45 - 75
Operating temperature	[°C]	35 - 45
pH range		3,3 - 3,6



Passivation SLOTOPAS ZNT 80

Concentrations and operating conditions

		Range
Concentrate SLOTOPAS ZNT 81	[ml/l]	50 - 100
Operating temperature	[°C]	35 - 45
Treatment time	[sec.]	30 - 75
pH range		3,3 - 3,6

The Passivation SLOTOPAS ZNT 80 produces a uniform transparent **Cr(VI)**-free protection layer. This passivation is used, when good corrosion protection results are required. The build conversion layer gives a stainless steel finish on zinc-nickel alloys. The Passivation SLOTOPAS ZNT 80 contains trivalent chrome compounds and fluoride. The electrolyte is operated with one liquid additive only. For further improvement of the corrosion resistance, a sealant or post-dip-solution can be applied. We recommend the products of our SLOTOFIN series.

Passivation SLOTOPAS ZNT 70

Concentrations and operating conditions

		Range
Concentrate SLOTOPAS ZNT 71	[ml/l]	130 - 170
Operating temperature	[°C]	35 - 45
Treatment time	[sec.]	45 - 75
pH range		3,3 - 3,6

SLOTOPAS ZNT 70 produces a uniform **chrome(VI)**-free finish on zinc-nickel alloys with best corrosion protection results. The produced conversion layer, depending on the dripping time, can be varied in the colour from transparent brownish to iridescent bluish-purple. The Passivation SLOTOPAS ZNT 70 contains trivalent chrome compounds and is **free of chrome(VI) and fluoride**. The bath is operated with one liquid additive only. For further improvement of the corrosion resistance, a sealant or post-dip-solution can be applied. We recommend the products of our SLOTOFIN series.

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