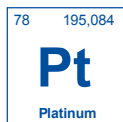


METAKEM
Precious metals & anodes

Platinum-DNP-Bath

High-quality platinum electrolyte
for technical applications





Precious metal baths

Platinum-DNP-Bath

Technical data

Bath concentration:	15 g Pt / L (range: 6 - 25 g Pt / L)
pH range:	2.0 (range: 1.5 - 2.5)
pH adjustment:	solution buffers around pH 2 (range: with NH_3 or H_3PO_4)
Temperature:	80°C (range: 70 - 85°C)
Voltage:	1.5 - 2.5 V
Bath movement:	1 cm / s (range: 0.5 - 2 cm / s)
Current density, cathodic:	0.3 - 1.5 A / dm ²
Anode:	Pt-niobium, Pt-titanium, MOX-titanium
Anode:Cathode:	1:1
Deposition rate:	1 µm / 12 min at 1 A / dm ²
Yield:	18 mg Pt / Amin (range: new: 15 mg / Amin, incorporated: 18 mg / Amin)



Request product:

→ metakem.de/en/request

Platinum-DNP-Bath is an acidic platinum bath for technical applications, with which light-coloured, hard coatings are deposited.

Features of the Bath

- ◆ Substrate: Nickel, copper, brass, stainless steel, gold and silver
- ◆ Substrate after suitable pre-treatment: Titanium, niobium, tantalum, molybdenum, tungsten
- ◆ Phosphoric acid
- ◆ Regenerable with **Platinum-DNP-Bath-R**

Properties of the Layer

- ◆ High adhesive strength
- ◆ Layer thickness up to 50 µm
- ◆ Coating hardness 500 - 700 HV

Bath Replenishment

The platinum content of the bath can be worked up to 5 - 6 g Pt / L without changing the current yield, but should preferably be added after 20 % platinum has been removed. **Platinum-DNP-Bath** is replenished with **Platinum-DNP-Bath-R** (50 g Pt / L). For 1 g of platinum removed, 20 ml of **Platinum-DNP-Bath-R** is added to the bath. The addition increases the phosphate content of the bath. It should be measured in between. A phosphate content of between 180 and 260 g / L delivers perfect results. If the phosphate content rises too high, some of the bath solution can be skimmed off and the rest diluted again with water. The removed platinum-containing phosphate concentrate can be used to replenishment drag-out losses or can be transferred to **METAKEM** for reprocessing.

Delivery Forms

The bath is supplied ready for use with the Pt concentration required by the customer.

**For further information
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