

Diplexin AM-550

**Environmental friendly metal-precipitant – new generation
Free of dithiocarbamates**

Diplexin AM-550 possesses a high environmental compatibility and is excellent in the removal of heavy metals from industrial waste water. Generally, downstream final exchange resins are not adversely affected. The optimal dosage has to be defined case by case based on the type and composition of the waste water.

Unlike traditional organosulphides and sodium sulfide compounds Diplexin AM-550 is environmentally friendly. This is due to its environmental and toxicological properties. Redissolutions of the precipitated metals, and / or from the sedimented sludge from treated water, are inhibited through the use of Diplexin AM-550. Due to the special production of the product almost no unpleasant odor arises when used. Diplexin AM-550 can be used in the acidic pH range without leading to problematic gas developments.

Technical Properties

Density (g/cm ³) at 20 °C	1,18 - 1,19
pH-value (10 g / l H ₂ O)	approx. 13,0
Application temperature (°C)	20 - 100
Water solubility (%)	100
Operation concentration kg/m ³	0,1 - 5,0

Applications

Galvanic Companies	++	Lacquer Factories	++
Printed Circuit Boards	++	Anodizing Companies	++
Sewage Plants	++	Cracking Industry	++
Waste Disposal	++	Chemical Industry	++

++ very
recommended

+ recommended

o possible

– not recommended

General Indications

The product is used as delivered

Reaction time is appr. 5 - 40 minutes

Recommended pH-value : 2,0 - 12,0

Chemical affinity of heavy metals: Hg²⁺ > Ag⁺ > Cu²⁺ > Pb²⁺ > Zn²⁺ > Ni²⁺ > Cd²⁺ > Fe³⁺ > Mn²⁺

The product can also be used in the acidic range.

Based on the special production – nearly odorless

Surpluses should be avoided due to ecological and ecotoxicological reasons.

A possible excess of Diplexin AM-550 has to be treated with iron-based products.

By using the "S-indicator solution" surpluses are safely detected.

Frostproof to < - 5 °C



ISO 9001 / ISO 14001