



Färber & Schmid
Chemie · Technik

Diplexin MR-4

Environmental friendly metal-precipitant Sulphur-free product

Diplexin MR-4 is a strong reduction and precipitation product to eliminate heavy metals out of industrial contaminated waste water. Even in the presence of strong complexing agents a secure elimination of all metals are possible.

Diplexin MR-4 offers unique and excellent environmental compatibility. Due to it's special sulphur-free structure an tremendous advantage of minimising sludge quantity occurs. A slightly overdose of the product is unproblematic from ecotoxicological point of view. Compared to traditional metal precipitation processes a sludge reduction up to 70% can be achieved.

Adding standard sulphur-based metal precipitants in combination with some organic contaminations of the waste water can results in turbidity of the treated water. This negative impact does not appear by using Diplexin MR-4. The optimised dosing quantities of Diplexin MR-4 have to be defined upon the composition and kind of waste water. The dosage of this product can be measured by either pH or redox values.

Technical Properties	
Density (g/ccm) at 20°C	1,40
pH-value (10 g / l H ₂ O)	14,0
Application temperature (°C)	20 - 50
Water solubility (%)	100
Operation concentration kg/m ³ (in general)	0,1 - 5,0 (0,5 - 1,5)

Applications			
Galvanic Companies	++	Lacquer Factories	+
Printed Circuit Boards	++	Mining Companies	++
Sewage Plants	+	Textile Industry	+
Waste Diposal	+	Chemical Industry	++

++ very recommended	+ recommended	o possible	- not recommended
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General Indications
The product is used as delivered or can be diluted to a 10% solution.
Reaction time is appr. 30 - 60 minutes
If added undiluted a slow addition is necessary, since otherwise massive foam / gas development is possible. The dosage may be controlled by pH or redox values.
Recommended pH-value : 3,0 - 13,0
Chemical affinity of heavy metals: Ag ⁺ > Cu ²⁺ > Au ²⁺ > Pd ²⁺ > Rd ²⁺ > Pt ²⁺ > Hg ²⁺ > Ni-Zn
Special benefits: active over a broad pH-range – no smelling – very effective on precions metals – minimum sludge quantity (up to 70%)
Keep in the original container.
Storage condition : not below 0°C

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