



Färber & Schmid  
Chemie · Technik

# HydroMet Alpha®-SL

**Environmental friendly metal-precipitant  
Free of dithiocarbamates**

HydroMet Alpha®-SL, the new heavy metal - precipitant generation

HydroMet Alpha®-SL is a high molecular chelating polymer with strong precipitation properties 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.

HydroMet Alpha®-SL offers unique and excellent environmental compatibility. Due to its special molecular structure an advantage of flocculation and mud sedimentation occurs. A slightly overdose of the product is unproblematic from ecotoxicological point of view, since the functional nitrogen- and sulphur groups have been synthesized with a reactive cationic polymer.

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 HydroMet Alpha®-SL. The operator receives an easy to use product. The optimised dosing quantities of HydroMet Alpha®-SL have to be defined upon the composition and kind of waste water.

## Technical Properties

Density (g/cm <sup>3</sup> ) at 20 °C	1,05 – 1,10
pH-value (100 g / l H <sub>2</sub> O)	> 10.5
Application temperature (°C)	20 - 100
Water solubility (%)	100
Operation concentration kg/m <sup>3</sup>	0,1 - 10,0

## 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

## General Indications

The product is used as delivered.

Reaction time is appr. 5 - 40 minutes

Recommended pH-value : 4,5 - 13,0

Chemical affinity of heavy metals: Hg<sup>2+</sup> > Ag<sup>+</sup> > Cu<sup>2+</sup> > Pb<sup>2+</sup> > Zn<sup>2+</sup> > Ni<sup>2+</sup> > Cd<sup>2+</sup> > Fe<sup>3+</sup> > Mn<sup>2+</sup>

By using the "S-indicator solution" overdoses can safely be detected. Additionally, iron compounds can withdraw overdoses safely.

Special benefits: active over a broad pH-range – no smelling – effective on different heavy metals

Storage condition : not below 0 °C



ISO 9001 / ISO 14001