



Färber & Schmid
Chemie · Technik

HydroMet Alpha®-ME/X7

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

HydroMet Alpha®-ME/X7 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. This product combines absolut strongest precipitation properties and easy to use handling.

HydroMet Alpha®-ME/X7 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®-ME/X7 . The operator receives an easy to use product. The optimised dosing quantities of HydroMet Alpha®-ME/X7 have to be defined upon the composition and kind of waste water.

Technical Properties

Density (g/cm ³) at 20 °C	1,15 – 1,20
pH-value (100 g / l H ₂ O)	> 10.5
Application temperature (°C)	20 – 100
Water solubility (%)	100
Operation concentration kg/m ³	0,1 – 10,0
Molecular weight	> 500 g / mol

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 delivered as a ready to use solution.

The processing time is appr. 5 - 40 minutes.

Recommended pH-value : 6,0 - 10,0

Excesses are to be avoided because of eco-toxic reasons and can can be detected safely by using the "S-indicator solution".

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

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

Frost-proof to -5 °C



ISO 9001 / ISO 14001