



## ATMP Phosphonic Retarder

CAS No.: 6419-19-8

Chemical Formula:  $C_3H_{12}NO_9P_3$

ATMP Phosphonic Retarder is an amino trimethylene phosphonic acid which is used as a powerful retarder in cement to slow the rate at which concrete sets. ATMP Phosphonic Retarder can be used in both dry cementitious materials or into readymix concrete as an admixture.

The key advantage that ATMP Phosphonic Retarder has over other traditional retarding admixtures is the linear relationship between addition rate and delay of setting time, without negatively impacting the concrete performance. This allows additional possibilities of transporting concrete over long distances. Additional benefits of using ATMP Phosphonic retarder include temperature adaptability (able to be used in both cold and hot environments) and a reduction in slump loss in concrete.

### APPLICATIONS

ATMP Phosphonic Retarder can be used in both dry and cementitious concrete as a set retarder, as well as a corrosion inhibitor and chelating agent in oilfield and water treatment.

### ADDITION RATE

ATMP Phosphonic Retarder can be used in both dry and cementitious concrete as a set retarder, as well as a corrosion inhibitor and chelating agent in oilfield and water treatment.

### TYPICAL SPECIFICATIONS

| Parameter (units)    | Specification |
|----------------------|---------------|
| Assay (%)            | ≥ 95.0        |
| Phosphorous acid (%) | ≤ 4.0         |
| Phosphoric acid (%)  | ≤ 0.8         |
| pH in 1% solution    | ≤ 2.0         |
| Chloride (%)         | ≤ 1.0         |



**LIMITED WARRANTY INFORMATION.  
PLEASE READ CAREFULLY.**

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This document is subject to revision without notice as new data becomes available.

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**PACKAGING**

25kg bags and 1000kg super sacks

**STORAGE & HANDLING**

Product should be stored in a dry place away from direct sunlight in sealed, original packaging.

**SAFETY**

Please consult the Material Safety Data Sheet for additional information on safety, handling and storage before using this product.