



## Certification of analysis

### 50% Phosphino Carboxylic Acid Polymer(PCA)

CAS No. 71050-62-9 Molecular Formula:  $(C_3H_4O_2 \cdot H_3O_8P \cdot Na)_x$

#### Properties:

Through the introduction of phosphonic group into carboxylic group, PCA has good dispersion property for scale of calcium carbonate and calcium phosphate in circulating cool water system. It has good scale inhibition for barium sulfate, strontium sulfate and silica scale. PCA has advantages in wide range of water quality, chemical stability, strong chlorine tolerance, etc. PCA can be used as scale and corrosion inhibitor in circulating cool water system and oilfield refill water system.

II class product performance is equivalent to BWA Belsperse 164 .

#### Specification:

items	index	
	I	II
Appearance	Colorless or light yellow liquid	
Solid content %	30.0 min	50.0 min
Total phosphor (as $PO_4^{3-}$ )%	7.0 min	0.8 min
Density (20℃)g/cm <sup>3</sup>	1.10	1.20
pH(1% water solution)	2.0-3.0	3.5-4.5(stock solution)

#### Usage:

When used alone, the dosage of 5-20mg/L is preferred. It can also be used together with organophosphines, copolymer, zinc salt or BTA.

#### Package and Storage:

200L plastic drum, IBC(1000L), customers' requirement. Storage for ten months in shady room and dry place.

#### Safety Protection:

Weak acidity, avoid contact with eye and skin, once contacted, flush with water.

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