

ZAC

ZAC is a 15% (as ZnO) zinc ammonium carbonate solution.
The product is only available in USA, Mexico and Canada.

Product Data

Composition

15% (as ZnO) zinc ammonium carbonate solution

Typical Properties

The values indicated in this data sheet describe typical properties and do not constitute specification limits.

Non-volatiles:	25.0 %
pH value:	11.0
Appearance:	Water clear liquid
Odor:	Ammoniacal
Active substance (as ZnO):	15 %

Food Contact Legal Status

For the current food contact legal status, please contact our product safety department.

Applications

Special Features and Benefits

ZAC is commonly used as an additive to carboxyl functional polymers as an ionic cross-linking agent.

Crosslinking with ZAC will increase the heat resistance and improve the solvent resistance of carboxylated polymers, and will significantly increase the film forming temperature of these polymers. As crosslinking will only take place at pH below 8.0, the use of any fixed alkalis in a formulation containing ZAC should be avoided.

To stoichiometrically crosslink carboxy-functional polymers, determine the total acid value by multiplying the acid value of the polymer x the % solids x the # of grams used. Multiply this value by 0.0048. The resultant value is the theoretical # of grams of ZAC required to totally crosslink all carboxyl groups. In actual practice, significantly less than stoichiometric amounts are used, as even small amounts of ZAC significantly increase both film forming temperature and hardness of carboxylated polymers.

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