

WESTON™ 705 phosphite

Liquid Phosphite Antioxidant



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Description

WESTON™ 705 phosphite is a versatile phosphite stabilizer. It is useful in a variety of polymer applications such as HDPE, LLDPE, Elastomers, ABS, and PVC. Based on proprietary chemistry, it has been designed to replace TNPP in those instances where a TNPP alternative is sought.

Chemical Structure

Proprietary

Chemical Abstract Number: 939402-02-5

EC Number: 700-485-5

Typical physical properties of WESTON™ 705 phosphite

Appearance	Colorless liquid free of particulates
Phosphorous %	5.2
Assay	>98%
Specific Gravity @ 25°C/15.5°C	1.004-1.035
Acid No. (mg KOH/g)	<0.5

Solubility g/100g solvent @ 20°C

Water	<0.5	Acetone	>100
Ethanol	>100	Squalane	<0.5
Cyclohexane	>100		

Thermogravimetric Analysis (10mg @ 10°C/minute under N₂)

Weight Loss %	5	10	25
Temperature °C	293	310	353

Storage and Handling

The product may be stored at least one (1) year in sealed containers. Containers should be stored in a cool, dry area. Extended storage at elevated temperatures or exposure to direct heat could decrease product shelf life. Containers should be kept sealed when not in use. If stored outside in cold weather, the drums should be warmed to facilitate pouring. Open drums should be used as soon as possible (within a maximum of 4 months) to avoid hydrolysis, especially during humid weather.

For additional handling and toxicological information consult the SI Group Material Safety Data Sheet.