

AFEX™ TSB23C

AFEX™ TSB23C is a functional oil that combines tung and soybean oils. It has both two and three hydroxyl groups (2.3 average functionalities) and three conjugated double bonds. The conjugated double bonds will be opened by oxidation through the oxygen resulting in potential crosslinking reaction. It has the following typical characteristics:

Appearance	Transparent liquid
Color (Gardner)	7 ~ 9
Odor	Tung and soybean oils
Viscosity, cps	1100 ± 100
Weight per Gallon, lbs	~8.3
Non-volatile, %	100
Density, g/ml (25°C)	<1.0
Equivalent weight (on OH)	148
Functionality	2.3
Solubility in	
Water	Insoluble
Ethanol	Soluble
Acetone	Soluble
Other organic solvents	Soluble
Reactivity with	
Isocyanates	Reacting
Melamine	Reacting
Anhydrides	Reacting
Oxygen	Reacting

Applications

AFEX™ TSB23C can be used as a raw material or an additive in the preparation of coatings, adhesives, sealants, foams and composites based on the urethane or melamine chemistry. The three conjugated double bonds imply that the products made with **AFEX™ TSB23C** can be self crosslinked by the oxygen in air resulting in improvement of chemical and water resistance.

Patents pending

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