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ShinEtsu
SE Tylose GmbH & Co. KG

Tylose[®]

PSO 810001

High performance thickener
for organic solvents



Tylose® PSO 810001

Thickening organic solvents is a difficult task. Standard cellulose ethers either do not work well or work only in very few organic solvents or in systems with high water content. The currently available thickeners for organic solvents have serious drawbacks such as severe limitations in regard to the appropriate solvents, poor performance and complicated processing.

As a solution to these problems SE Tylose has developed Tylose® PSO 810001, a methyl hydroxypropyl cellulose (MHPC) which acts as a thickener for a much broader range of organic solvents. Tylose PSO 810001 performs exceedingly well in most polar organic solvents, organic solvent mixtures and organic solvent/water systems. Fields of application include paint strippers, adhesives and fuel pastes.



Typical MHPC grades are known to exhibit inverse solubility in water, which means that they are less or not soluble in hot water, but soluble in cold water. Tylose PSO 810001 also shows this behaviour in water but its solubility in organic solvents reflects a normal expectation: Increasing solubility with rising temperature. Thus, in waterless organic solvents, Tylose PSO 810001 can be added directly to organic solvents at room temperature (or below) under stirring. If necessary, the mixture can then be heated.

In case of organic solvent mixtures, Tylose PSO 810001 often works perfectly well, even if none of the components used alone is an appropriate solvent. It is even possible to use a non-polar solvent in a mixture to suspend Tylose PSO 810001 prior to the dissolution. The resulting dispersion can then be thickened by adding the polar components of the solvent mixture. Tylose PSO 810001 provides a flexible high performance method to thicken many solvents and solvent based systems.

Appropriate solvents for Tylose® PSO 810001 – Some typical examples

Alcohols	Methanol Ethanol Propanol Isopropanol Octanol Butyl diglycol 1,3-Butanediol Glycerol Diethylene glycol
Aldehydes/Ketones	Acetone (propanone) 2-Butanone
Amides	DMF (Dimethyl formamide) NEP (N-Ethyl-2-pyrrolidone) NMP (N-Methyl-2-pyrrolidone)
Esters	Dibasic Esters BDGA (2-(2-Butoxyethoxy)ethyl acetate)
Ethers	DPM (Dipropylene glycol methyl ether) TPM (Tripropylene glycol methyl ether) THF (Tetrahydrofuran) 1,3-Dioxolane
Halogenated Carbohydrates	Methylene chloride Chloroform (trichloromethane)
Others	DMSO (Dimethyl sulfoxide) Pyridine

Please contact us for further information on solvents not listed above.

Site and Addresses



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