

ESTERS FOR ANAEROBIC ADHESIVES

Thread Locks and Sealants

Hallstar ester plasticizers provide the right chemistries to meet the stringent demands of thread lock and thread/pipe sealant applications. With excellent compatibility in acrylic monomers and polymers, Hallstar's esters provide flexibility, improve the usable temperature range, and prevent shrinkage and penetration from oils and other fluids.



Thread/pipe sealants are applied to the threads of fasteners typically before assembly to provide protection against corrosion and provide leak resistance from oils and other fluids. They are effective in a wide range of temperature and pressure environments.

Recommended ester usage: 20-50 percent by volume

		TegMeR® 804S	Plasthall® G-54	Plasthall® P-953	Dioplex® 904
CHEMICAL NAME		Polyglycol Dioctanoate	Polyester Adipate	Polyester Adipate	Polyester Adipate
Molecular Weight		449	3300	3400	4200
Viscosity @ 25°C (cP)		17	5600	8500	3300
APPLICATION	USAGE				
Thread/Pipe Sealant	20-50%	X	X	X	X

Thread lock adhesives are applied to the threads of fasteners before or after assembly to prevent movement, due to vibration. They also function to prevent corrosion and leakage.

Recommended ester usage: 5-50 percent by volume (increases with higher temperature and contact with oils and other fluids)

		TegMeR® 804S	Plasthall® G-54	Plasthall® P-953	Dioplex® 904	CPH 27N®	CPH 39H®
CHEMICAL NAME		Polyglycol Dioctanoate	Polyester Adipate	Polyester Adipate	Polyester Adipate	Polyester Laurate	Polyester Oleate
Molecular Weight		449	3300	3400	4200	382	457
Viscosity @ 25°C (cP)		17	5600	8500	3300	38	51
APPLICATION	USAGE						
Copper, Brass, Steel	5-40%	X	X	X	X	X	X
Stainless Steel	20-40%	X					
Plastic	30-50%						
Medium Strength/ Removable	5-40%	X	X	X	X	X	X
Low Strength	20-40%					X	X
High Temperature	20-40%	X	X	X	X		
Lubricated (petroleum) Surface	20-40%	X					

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