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SONLOK™ 3565

Anaerobic Thread Sealant with PTFE

SONLOK 3565 is a controlled strength, high performance anaerobic thread sealant designed for the locking and sealing of metal threaded pipes and fittings.

NSF Certified

Certified to ANSI/NSF Standard 61 for use in commercial and residential potable water systems not exceeding 82 °C.

UL Classification

Classified as small fire hazard. No flash point in liquid state. Ignition temperature 465 °C. For use in devices handling gasoline, petroleum oils, natural gas, propane and butane.

Pressure Resistance:

SONLOK 3565 was successfully tested for pressure resistance and sealability to 3,000 psi. 3/8 inch NPT steel pipe tees and plugs were assembled and pre-torqued to 27 N.m and allowed to cure for 24 hours prior to testing at 3000 psi hydraulic pressure according to ASTM D 1599.

Adhesive Properties:

Composition:	Methacrylate Ester
Color:	White
Viscosity:	300,000 cps at 25 °C
<small>Brookfield RVT Spindle 3 @ 20 rpm</small>	
Specific Gravity:	1.10
Flash Point:	> 100 °C
Solvent Content:	None

Curing Properties:

Handling Cure Time:	10 - 30 minutes
Functional Cure Time:	2 - 4 hours
Full Cure Time:	24 hours

Breakaway Torque, ISO 10964:	
M10 steel nuts and bolts N.m	>2.80 N.m
	> 25 lb.in.

Prevail Torque, ISO 10964:	
M10 steel nuts and bolts	1 N.m
	9 lb.in.



Compressive Shear Strength, ISO 10123:

Steel pins and collars >1 N/mm²
>147 psi

Temperature Range -65 to 300 °F

Physical Properties:

Coefficient of Thermal Expansion, 80×10⁻⁶
ASTM D 696, K-1

Coefficient of Thermal Conductivity, 0.10
ASTM C 177, W/(m·K)

Specific Heat, kJ/(kg·K) 0.30

Chemical Resistance:

Chemical	Temp.	% Initial Strength Retained	
		500 hours	1000 hours
Acetone	22 °C	90	85
Ethanol	22 °C	90	90
Motor Oil	125 °C	100	95
Gasoline	22 °C	100	95
Brake Fluid	22 °C	100	95
Water/Glycol	87 °C	100	90

Application Method:

Surfaces should be dry, clean, and free of any contamination. Apply 360° bead of product to the leading threads of the male fitting, leaving the first thread free. Force the material into the threads and voids, adjust product amount accordingly and apply a 360° bead of product on the female threads also. Assemble and tighten as required.

Storage:

Anaerobic adhesives shall be ideally stored in a cool, dry place in unopened containers at a room temperature between 46 °F to 82 °F. Please do not return any unused material to its original container.

PRECAUTIONS: This product and the auxiliary materials normally combined with it are capable of producing adverse health effects ranging from minor skin irritation to serious systemic effects. None of these materials should be used, stored, or transported until the handling precautions and recommendations as stated in the Material Safety Data Sheets (MSDS) for this and all other products being used are understood by all persons who will work with the material.

Warranty: All products purchased from or supplied by Parson are subject to terms and conditions set out in the contract. Parson warrants only that its product will meet those specifications designated as such herein or in other publications. All other information supplied by Parson is considered accurate but are furnished upon the express condition the customer shall make its own assessment to determine the product's suitability for a particular purpose. Parson makes no other warranty, either express or implied, including those regarding such other information, the data upon which the same is based, or the results to be obtained from the use thereof; that any product shall be merchantable or fit for any particular purpose; or that the use of such other information or product will not infringe any patent.