



Dissolvable Ball Sealer - Low Temperature



Optimize Fluid Diversion and Enhance Stimulations

The field-proven PS-LT dissolvable ball sealer temporarily seals perforations that are accepting the most fluid.

Applications

- Plug open perforations for cleaning scale and paraffin
- Improve stimulation by diverting fluid to lower-permeability zones
- Help manage fluid in hydraulic fracturing stages and refracs

Features

- Compatible with standard stimulation fluid additives
- Dissolves in freshwater, brine, and acid
- Differential pressure tested with fluid up to 4000 psi [27.6 Mpa] and 150 °F [66 °C]

Benefits

- Will not stick in perforations like rubber coated ball sealers
- Quickly dissolves in hours after stimulation or fracturing stages
- Completely biodegradable material

Properties

Temperature range 75 - 150 °F [24 - 66 °C]

Appearance Blue

Specific gravity 1.20 +/- 0.05

Solubility Compatible with freshwater, brine, and acid; incompatible with nonpolar solvents, such as diesel, benzene, xylene, kerosene, toluene

pH fluids 0–12

Storage Keep product away from moisture; do not expose to temperature higher than 130 °F [54 °C]

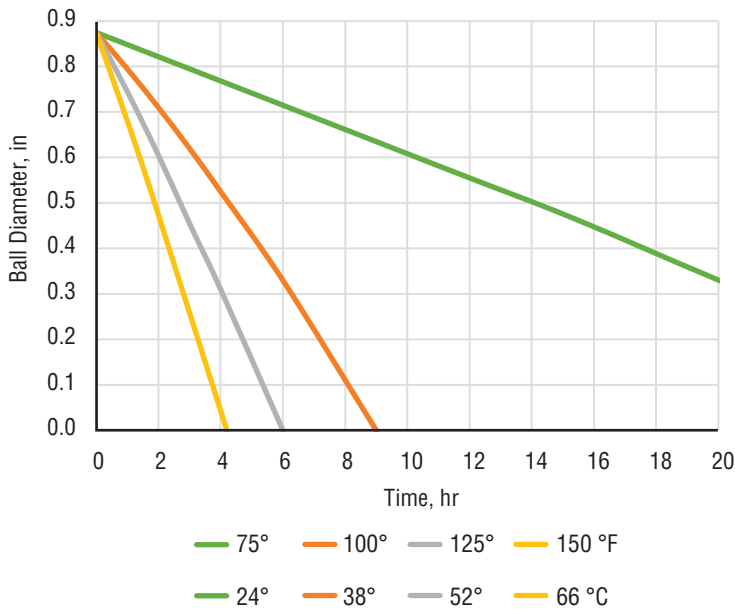
Size 0.50 in [13 mm]; 0.625 in [16 mm]; 0.875 in [22 mm]; 1.0 in [25 mm]; 1.25 in [32 mm]

Please soak the PS-LT ball sealer in mineral oil, which prevents clumping, before inserting into the gun launcher.

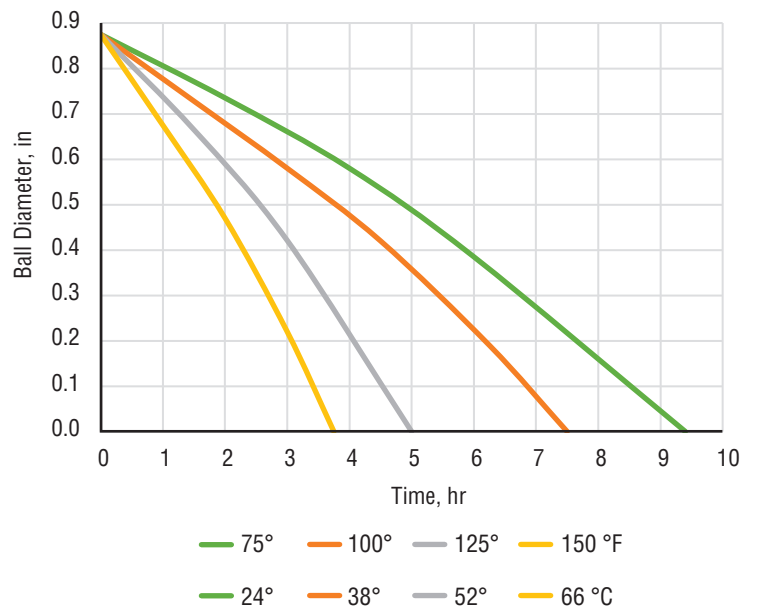


Dissolvability Rates vs. Time

Dissolvability Curves in **2% Potassium Chloride (KCL)**
PS-LT 0.875 in [22 mm]



Dissolvability Curves in **15% Hydrochloric Acid (HCL)**
PS-LT 0.875 in [22 mm]



Perforation Sealing Differential Pressure (ΔP) Sealing Time in Fluid vs. Temperature

Temp °F [°C]	ΔP Sealing Time* (Hours)			
	2% KCL		15% HCL	
	500 psi [3.45 Mpa]	1000 psi [6.9 Mpa]	500 psi [3.45 Mpa]	1000 psi [6.9 Mpa]
75 [24]	17	15	5.0	4.4
100 [38]	5.7	5.0	3.8	3.4
125 [52]	3.1	2.8	2.4	2.1
150 [66]	2.4	2.1	1.9	1.7

* Time based on 0.875 in [22 mm] ball diameter capable of sealing a perforation size of 0.40 in [10 mm]

For more information about our PS-LT low-temperature, dissolvable ball sealer that increases fluid efficiency, please **call us: 844-277-7373** or **email: csr@perfsealers.com**.

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