



WelSpacer®

Cementing Extender / Fluid Loss / P&A Cementing Applications

"Quality products at a competitive price with service second-to-none"

WelDril® Products have earned a prestigious reputation in the oilfield industry for their unwavering commitment to delivering exceptional products and services to clients. The WelDril WelSpacer® product exemplifies this dedication, offering a comprehensive solution that addresses a wide array of user needs. WelSpacer® incorporates a meticulously engineered particle size distribution system designed to effectively combat any fluid loss issue. Its specialized loading plays a crucial role in overcoming problematic vugs, fractures, and difficult lost circulation areas during cementing. Furthermore, WelSpacer® demonstrates remarkable versatility, making it suitable for cementing in diverse applications, including various water, oil, or synthetic-based drilling fluids, as well as in HPHT and GEO Thermal Wells.

PERFORMANCE BENEFITS:

- Compatible with all drilling fluids.
- Provides slurries that have higher compressive strengths at all ages, compared to slurries containing other lost circulation and extending additives.
- Presents a sizable particle size distribution (PSD) to combat unforeseen fracture sizes.
- ESG friendly – Passes LC50.

APPLICATIONS:

- Dual performance Benefits used as a Spacer and Dry Blended LCM. Insoluble in oil
- Does not soften at high temperatures.
- Does not appreciably change the thickening time of cement.
- Compatible with most other cement additives.
- Does not require complicated mixing equipment or procedures.
- Total loss WelSpacer Pills and WelSpacer Mixed in Cement.
- HPHT and Geothermal Cementing Additive.

PHYSICAL PROPERTIES:

- Black granules w/multicolored rigid flakes.
- Sized crumb rubber.
- Specific Gravity - 1.15 to 1.30 g/cm³.
- Bulk Density - 48 lbs./ft³.
- Return Permeability - 97%.
- PSD Range - 45µ to 3,800µ.
- PSD Average - 920µ.
- In USA - 50-lb sacks | 50 sacks per pallet
- Outside USA - 50# sacks | 40 sacks per pallet
- UV Shrink Wrapped.
- Temperature Stability: Up to 1,112°F (600°C).
- Non-Acid Soluble

COST BENEFITS:

- Rigorous LCM combination.
- #1 Spacer and LCM combination.
- Competitive pricing.
- 4 of the 5 proprietary components are produced in our facilities.

CUSTOMER SERVICE BENEFITS:

- Exemplary products and services.
- Deliveries on Trucking Availability.
- Special and Extra Larger orders are ready for shipment in 24 to 48 hours.

AVAILABLE PRODUCT INFORMATION:

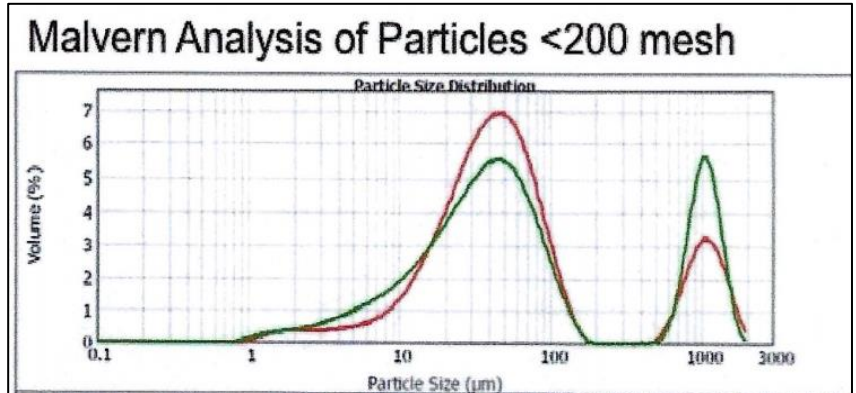
- Product SDS
- Recommended use is 10 to 35 lbs./bbl, depending on the losses while drilling.
- Call for custom loading requirements.



Shipping Address: 600 E. Franklin, Haskell, OK 74436
Mailing Address: P.O. Box 2673, Muskogee, OK 74402
Phone: (918) 686-8585 | 800-247-9433
Website: www.weldril.com

Cement Slot Test

Sieve Analysis		
Mesh Size	Brand X	WelSpacer
6	0.0%	3.5%
10	17.8%	18.5%
20	38.2%	43.3%
40	5.4%	7.7%
70	5.7%	4.7%
100	4.2%	2.4%
200	7.8%	5.1%
PAN	20.8%	14.8%



Sample Name	D(10mm) Um	D(50mm) Um	D(90mm) Um
Brand X	12.98	45.87	981.6
WelSpacer	8.947	46.2	1090.7

Slot Test Performance - WelSpacer vs Brand X							
	Material	Loading (ppb)	Slot Size (mm)	DP (psi)	Spurt Vol (ml)	Spurt Time (sec)	5 min Filtrate (ml)
1.2mm Slot	Brand X	7.6	1.2	1000	62.47	35	129.94
	WelSpacer	7.6	1.2	1000	18.16	28	108.36
	Brand X	12.7	1.2	1000	50.46	40	105.04
	WelSpacer	12.7	1.2	1000	16.3	40	82.75
1.5mm Slot	Brand X	7.6	1.5	1000	129.13	106	174.15
	WelSpacer	7.6	1.5	1000	52.16	50	130.44
	Brand X	12.7	1.5	1000	37.38	58	95.38
	WelSpacer	12.7	1.5	1000	11.32	25	71.39
3mm Slot	Brand X	7.6	3	1000	76	150	278.93
	WelSpacer	7.6	3	1000	156.23	60	223.19
	Brand X	12.7	3	1000	63	Inconsistent Seal	239
	WelSpacer	12.7	3	1000	158.9	120	228.93

WelSpace consistently showed lower spurt volume and faster spurt time - better seal

Report Date: Late (2023)

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