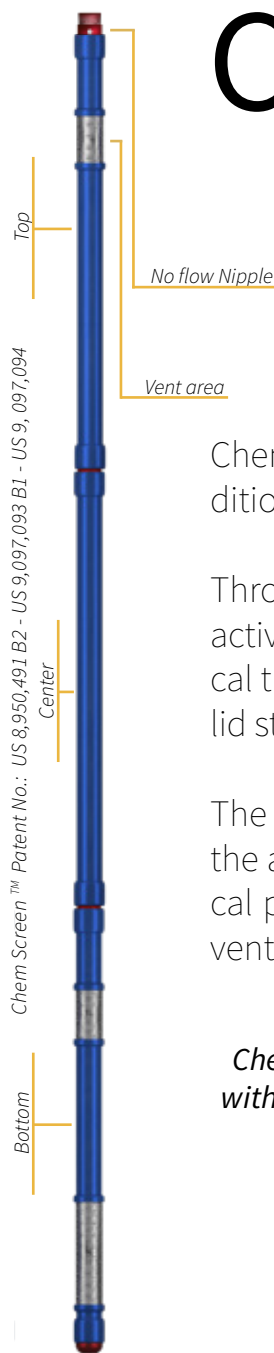


CHEM SCREEN™

Patent No.: US 8,950,491 B2 - US 9,097,093 B1 - US 9,097,094



Chem Screen is a new technology that changes the traditional concept of downhole chemical treatment.

Through the microencapsulation technology, all the active components of the most effective liquid chemical treatments in the oil industry are processed in a solid stick that is installed below the pump intake.

The installation of the treatment in downhole allows the activation, dispersion, and inhibition of the chemical problems to be faster and more effective, this prevents the harmful effects on the downhole equipment

Chem Screens are solid based blend with 97% active chemical ingredients.

BENEFITS

- Reduces paraffin, scale and corrosion failures.
- Treats from the bottom up.
- Refillable tool design.
- Slow, self-release.
- Chemical treatment below the packer.



Dispersion Area



Chemical Container

The Chem Screen is manufactured in three nominal diameters:

2-3/8", 2-7/8", 3-1/2" and lengths: 24', 48', 72', 96', 120' and 144'. The size and length of the system is designed based on the chemical problems, BHT, production and mechanical conditions of each well.

Chemical Tool Recommendation***

FOR ESP's*

Casing (in)	Tubing (in)	Water cut %	BHT (F)	Chemical Tool Recommendation (ft)
5-1/2"	2-7/8"	60	160	48'
5-1/2"	2-7/8"	60	160	72'
5-1/2"	2-7/8"	60	160	96'
5-1/2"	2-7/8"	60	160	120'
5-1/2"	2-7/8"	60	160	144'

* For new wells, which usually have a depletion time of 4-7 months, OSI recommends either a 120' or 144' OSI Chem Screen. Quick Release is recommended for all the ranges of production. Longevity estimated for a period of 1 year.

** Extend the Longevity of chemical treatment in Gas Lift and SRP's with OSI's latest Retrievable Chem tool. Longevity estimated for a period of 1 year.

***Recommendations could change based on the specific well conditions.

FOR GAS LIFT & SRP's**

Casing (in)	Tubing (in)	Water cut %	BHT (F)	Chemical Tool Recommendation (ft)
5-1/2"	2-7/8"	60	160	24'
5-1/2"	2-7/8"	60	160	48'
5-1/2"	2-7/8"	60	160	72'

Technical Specifications

Size	Pipe (in)		Screen (in)		Collar (in)	
	OD	ID	OD	OD	ID	ID
2-3/8"	2.375	1.941	2.87	3.063	2.375	
2-7/8"	2.875	2.441	3.37	3.668	2.875	
3-1/2"	3.5	3.066	3.94	4.5	3.5	

