

ConcentraGel Gel Pig Technology

Biodegradable, nontoxic pipeline cleaning solution

APPLICATIONS

- Onshore and offshore oil and gas pipeline cleaning
- Refineries
- Tank farms
- Gathering stations and lines
- Hydrocarbon processing plants
- Production platforms

BENEFITS

- Increases pipeline flow efficiency
- Minimizes downtime with custom-engineered solution
- Enhances environmental safety
- Improves certainty if leak detection necessary

FEATURES

- Fluorescent dye
- Biodegradable, nontoxic, nonflammable formula
- Long life: up to 30 d

Water-base, high-viscosity ConcentraGel* gel pig technology is a pipeline-cleaning gel pig that cleans production-fouling material from pipelines. Like conventional pigs, ConcentraGel technology can be used in cleaning and corrosion-inhibitor applications with multiple spacer-flush combinations. The technology is water-base and does not solubilize hydrocarbons but displaces and moves them down the pipeline.

ConcentraGel technology also contains a fluorescent dye in case leak detection is necessary. The standard-addition green dye, used most commonly by customers, has passed all toxicity testing for discharge under the Gulf of Mexico National Pollutant Discharge Elimination System (NPDES) Permit. The other color options are red, yellow, orange, amber, and clear.

All polymers used in making ConcentraGel technology are biodegradable and nontoxic. The technology can be left in the pipeline system, and indigenous bacteria accelerate degradation. The rate at which each product degrades depends on the amount of preservative added. Standard-formula technologies can last between 5 and 7 d in the pipeline. ConcentraGel 824-2G Plus 30 technology extends the gel-pig life to between 21 and 30 d. Decomposition can also be accelerated using acids or oxidizers, such as bleach.



The green fluorescent dye used by ConcentraGel gel pig technology has passed all toxicity testing for discharge per the Gulf of Mexico NPDES permit.

ConcentraGel Gel Pig Technology



Schlumberger Pipeline Services custom-formulates cleaning chemicals based on individual pipelines to ensure optimal cleaning. Our advanced chemicals and robust pigging technologies can be reformulated to effectively mitigate any production-impacting material in your pipeline, including scale, biological film, tar, black powder, and solids.

Specifications

Formula	ConcentraGel 824-G	ConcentraGel 824-2G	ConcentraGel 824-2G Plus	ConcentraGel 824-2G Plus 30	ConcentraGel 826-G	ConcentraGel 842	ConcentraGel E 824	ConcentraGel E 826
Density, lbm/galUS [g/cm ³]	8.34 [0.999]	8.37 [1.002]	8.40 [1.006]	8.40 [1.006]	8.34 [0.999]	8.40 [1.006]	9.95 [1.192]	9.95 [1.192]
Viscosity, cP	5,000–9,000	10,000–14,000	17,000–25,000	17,000–25,000	8,000–15,000	>50,000	8,000–15,000	8,000–15,000
Cleaning life (average), d	5–7	5–7	5–7	21–30	5–7	5–7	5–7	5–7

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