



High Performance Pipeline Treatment Chemicals



NuGenTec®
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www.NuGenTec.com

About NuGenTec

NuGenTec is an oilfield chemicals company specializing in environmentally friendly customized chemical solutions to increase oil and gas production, restore flow efficiency to pipelines, clean-out and recover oil from sludge in tanks, and improve overall efficiencies in the field.

NuFlo™ Pipeline Treatment

NuGenTec's NuFlo™ pipeline products are a proprietary line of environmentally friendly chemicals designed to dissolve and disperse asphaltenes, resins and paraffins in the C₅-C₅₅ range at ambient temperatures. NuFlo™ works in a wide range of API gravity crudes; the viscosity reducing formula cleans the pipeline of blockages, reduces drag and increases flow rates. This product is non-flammable, non-corrosive, and environmentally friendly, shipping as a non-regulated material.

NuGenTec's NuFlo™ pipeline formulation dislodges and liquefies paraffinic and asphaltic deposits within the pipeline systems, thus eliminating the need for mechanical cleaning and other cleaning processes.

The NuGenTec Difference

NuGenTec's proprietary pipeline cleaning solution incorporates a four-stage process:

- 1. Sample Acquisition and Analysis:** Paraffin/asphaltene samples are acquired from the pipeline and analyzed in NuGenTec's laboratory using proprietary methodology and testing procedures.
- 2. Chemical Formulation:** After laboratory results have been reviewed and assessed, NuGenTec's team conducts a series of laboratory tests to determine the optimal chemical formulation for the pipeline treatment.
- 3. Custom Tank Application:** NuGenTec's team of engineers and pipeline specialists analyze the technical specifications of the pipeline and coordinate a bespoke solution for the client.
- 4. Preventative Maintenance Plan and Knowledge Transfer:** NuGenTec works with the client to set up a going forward maintenance plan to minimize future paraffin/asphaltene build-up, maintain flow at the pipeline's rated capacity and lower maintenance costs. This knowledge transfer may involve the set-up of a local laboratory and testing facility.

Paraffin and Asphaltene Sludge Treatment Process – Pipelines



- 1** Paraffin and asphaltene deposits restrict pipeline flow, lower throughput, and raise pressure.



- 2** NuFlo™ is injected into the pipeline.



- 3** Chemical liquefies deposits.



- 4** Pipeline returns to rated capacity; pressure reduced and flow restored.

Benefits – Pipeline Treatments

- Improves oil throughput and reduces maintenance costs.
- Prolongs the life of the pipeline while eliminating under-deposit corrosion.
- Pipelines which cannot be mechanically cleaned are able to be treated without risk of internal structural damage.
- Chemical treatment with our viscosity reducers will enhance the amount of oil that can flow through the pipeline.

Compare Conventional Methods to NuGenTec's Superior Chemical Solution

Requirements	Description	Mechanical Cleaning	Conventional Solvent Treatments	NuGenTec NuFlo™ Solution
Paraffin removal from pipeline	NuFlo™ liquefies 100% of the paraffin	Medium	Medium	High
Damage prevention	Mechanical cleaning severely stresses pipeline; conventional solvents destroy o-rings	Low	Medium	High
Water demulsification from crude	NuFlo™ acts as an excellent demulsifier	Low	Low	High
Can be used for maintenance	Mechanical cleaning requires pipeline shut down	Low	High	High
ROI	Revenue increase and cost savings	Low	Medium	High
Production up time	NuFlo™ does not require pipeline shut down	Low	High	High
Flow rate increase	NuFlo™ has shown up to a 50% increase in flow rates	Medium	Medium	High
Health and safety	NuFlo™ is a safer alternative to conventional solvents	Medium	Low	High
Environmentally safe	Conventional solvents pose environmental hazards	High	Low	High

Key	
Low	0%-30% Effective
Medium	30%-70% Effective
High	70%-100% Effective

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