



High Performance Downhole Chemicals



NuGenTec®

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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™ Downhole Treatment

NuGenTec's NuFlo™ downhole products are a proprietary line of environmentally friendly chemicals designed to dissolve and disperse asphaltenes, paraffins (C₅ – C₅₅ range) and natural resins in a wide range of downhole conditions. NuGenTec's downhole stimulation process increases oil and natural gas production by returning the formation to its full reservoir potential.

The NuGenTec Difference

NuGenTec's proprietary downhole stimulation solution incorporates a four-stage process:

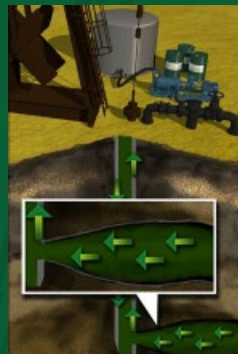
- 1. Sample Acquisition and Analysis:** Samples are acquired from the field and analyzed in NuGenTec's laboratory using proprietary methodology and testing procedures.
- 2. Chemical Formulation:** After laboratory results have been reviewed and assessed, NuGenTec's team conducts a series of laboratory tests to determine the optimal chemical formulation for treatment.
- 3. Custom Field Application:** NuGenTec's team of engineers and production specialists analyze historical production data, well-bore schematics, geological setting, and surface facilities to provide an optimal field application and bespoke solution to the client.
- 4. Preventative Maintenance Plan and Knowledge Transfer:** NuGenTec works with the client to set up a going forward maintenance plan to optimize production, prevent well failures and lower workover costs. This knowledge transfer may involve the set-up of a local laboratory and testing facility.

NuGenTec's NuFlo™ proprietary well stimulation procedure has shown to increase oil production by 20% to up to 800%.

Paraffin and Asphaltene Sludge Treatment Process – Downhole



- 1** Paraffin and asphaltene deposits clog the pore space within a reservoir restricting fluid flow and lowering oil production.



- 2** NuFlo™ chemical injected downhole breaks down paraffin and asphaltene deposits that have accumulated over time; fluid flow increases and formation returns to free-flowing state at full reservoir potential.

Benefits – Downhole Treatments

- Solves mechanical problems caused by paraffin build-up resulting in rod stacking and pump failures.
- Very effective in high asphaltene and/or paraffin environments.
- Chemicals can be applied to clear paraffin, scale, and iron sulphide blockages in tubing and into the pore spaces in the producing formation.
- Excellent for treating wells with high pressure problems due to downhole blockages.
- Chemicals can be applied to fix mechanical problems or to stimulate the reservoir.
- Our downhole well stimulation procedure has been shown to increase daily oil production by 20% to up to 800%.

Compare Conventional Methods to NuGenTec's Superior Chemical Solution

| Requirements | Description | Conventional Hot Oiling | Conventional Solvent Treatments | NuGenTec NuFlo™ Solution |
|--|---|-------------------------|---------------------------------|--------------------------|
| Paraffin removal from flowlines and tubing | NuFlo™ liquefies 100% of the paraffin | Medium | Medium | High |
| Paraffin removal in perfs | Conventional solvents are <50% effective | Medium | Low | High |
| Paraffin removal into formation | NuFlo™ acts as near-wellbore EOR | Low | Low | High |
| Can be used for maintenance | Conventional methods require well to be shut-in. NuFlo™ can be injected into the process stream | Low | Medium | High |
| ROI | Revenue increase and cost savings | Medium | Low | High |
| Production up time | NuFlo™ does not always require well to be shut in | Low | Low | Medium |
| Increase in production | Oil production increases of 20% to up to 800% with NuFlo™ treatments | Low | Low | High |
| Health and safety | NuFlo™ is a safer alternative to conventional solvents | High | Medium | High |
| Environmentally safe | Conventional solvents pose environmental hazards | Medium | Low | High |

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

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