



AN3 EXPORT AND IMPORT TRADE LTDA

1 – FAQ Frequently Asked Questions

1. What is the recommended quantity of BDO 2002 solution per cubic meter of tank volume?

The quantity is not based on tank volume, but on the volume of residue (sludge/oil) present.

The basic formula is:

Volume of BDO Solution required = Volume of Residue (1:1 ratio).

First, dilute the concentrated BDO2002 in water according to the API table, then apply a volume of this solution equal to the volume of the residue to be treated.

2. What is the typical contact/circulation time for effective cleaning?

Time varies by application and level of oil / toffin / API encrustation:

Tanks: 2 to 8 hours of circulation/agitation.

Pipelines: 1 to 4 hours of circulation.

Offshore Applications: 4 to 12 hours, depending on sea conditions and the system.

Physical processes (heating, pumping) significantly reduce this time.

3. What is the optimal filling level (%) of the cleaning solution?

The optimal level is one that completely covers the residue to allow total contact. For tanks with large sludge volumes, the solution level should be at least equivalent to the sludge height. A simple working model is to start with a solution level of 10-20% of the tank volume, focusing on the residue area, and increase as needed during recirculation.

4. What temperature range is recommended for maximum cleaning efficiency?

Maximum efficiency is achieved between 40°C and 70°C. Heat accelerates the chemical reaction and breaks the hydrocarbon bonds.

5. What temperature range (min/max) can the BDO solution be exposed to?

The diluted solution can be exposed to temperatures up to 120°C without losing its efficiency. In environments below 0°C, the water-based solution may freeze. Consult AN3 to add additives to the product to prevent freezing in extreme climates.

6. Can BDO be used within a heated cleaning process?

Yes. BDO2002 is stable and recommended for use in heated processes, up to 120°C, which greatly enhances its performance.

7. What is the maximum number of reuses of the same solution?

The same solution can be reused 2 to 3 times, provided it still has cleaning capacity (not completely saturated with oil). The "spent" solution allows for the recovery of the setotod oil.



AN3 EXPORT AND IMPORT TRADE LTDA

8. What is the recommended extraction system to reclaim the oil?

After treatment, since BDO2002 does not emulsify the oil, it settles naturally by gravity. Skimming systems, suction pumps, or water-oil separators are ideal for extracting the clean, reusable oil from the surface.

9. Are there any materials or coatings that are not compatible?

Being neutral, non-toxic, and non-corrosive, BDO2002 is compatible with all metals, common elastomers (EPDM, Viton), and paints used in the oil industry. We always recommend a compatibility test in a small, discreet area for critical applications.

10. What is the typical consumption per cleaning cycle?

Consumption is calculated based on residue volume (m³).

For a residue with API 20, for example, you would use a 1:20 Dilution.

To treat 1 m³ of residue, you would use 50 liters of pure BDO2002 (1 part) diluted in 950 liters of water (19 parts), totaling 1 m³ of solution to apply at the 1:1 ratio. This quantity must be reduced if the oil waste is free of toffin, sand and other remains.

11. Are there documented case studies or performance data?

Yes. We have success cases and performance data from companies in the sector attesting to a 30% reduction in downtime, 80% reduction in waste, and significant savings compared to using diesel, kerosene, or acids.

12. Are there certifications or regulatory approvals?

BDO2002 has technical reports proving: Biodegradability (72h), Non-Toxicity, Free of Organochlorides and Heavy Metals, Non-Flammability, and Non-Explosivity. These reports comply with the principles of major global regulatory agencies.

13. Is there a standard operating procedure (SOP) available?

Yes. The basic SOP is:

1. Identify the API gravity of the residue.
2. Dilute BDO2002 in water according to the table.
3. Apply the solution (by spray, injection, circulation) onto the residue in a 1:1 ratio.
4. Agitate or circulate the solution to accelerate the process.
5. Allow for contact time.
6. Remove the solution and settled oil by pumping or gravity.
7. Recover the oil and dispose of the aqueous solution in an environmentally correct manner.



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14. Why is BDO better than other tank cleaning systems?

Because it is the only non-emulsifying product, allowing for 100% oil reclaim. It is safer (non-toxic, non-explosive), more efficient (reduces time and labor costs), and environmentally superior (biodegradable, reduces waste by 80%).

15. Can BDO be used as part of a fracking procedure?

Yes. BDO2002 can be injected into fissures to help release and clean oil from the rock, facilitating its extraction and reducing contamination of flowback water.

16. Are there any components within BDO which are dangerous?

No. Its formula is based on water and essential oils, free from hazardous components, heavy metals, or organochlorides, as certified by reports.

17. What is the disposal procedure for BDO after use?

The used solution can be disposed of in conventional effluent treatment systems (sloop tanks), where it will help reduce the oil and grease content. Being biodegradable and non-toxic, its disposal is simple and safe.