ZEOLIT
Natural clinoptilolite

WORKSHOPS · FUEL DEPOTS · PORTS · BUNDED AREAS · VEHICLE YARDS

Inert, non-flammable, and it does not become plastic waste.

A mineral spill absorbent for hydrocarbons on paved surfaces — cheap enough to leave down as a permanent layer, and it takes ammonium and metal ions out of the same runoff.

Read more

Spill absorbent and industrial surfaces

Natural clinoptilolite, 1–3 mm, absorbs oil, diesel and hydraulic fluid on contact and holds roughly **2.2 kg of oil per kilogram of mineral**. Sweep it up and dispose of it as contaminated inert waste. It does not burn, it does not degrade, and it does not add a plastics stream to your waste record.

What else it does, which polypropylene cannot: the same material binds ammonium and heavy-metal cations out of the same runoff. On a yard that handles both fuel and fertiliser, or both fuel and washdown, that is one product instead of two.

Where it makes most sense is as a **permanent thin layer** — in bunds, under fuel points, in vehicle yards — replaced when it is loaded rather than deployed after the event.

What has actually been measured

- ✓ About 2.2 g of oil absorbed per gram of mineral
  published testing
- ✓ Expanded perlite reached 3.5 g/g in the same study — we publish the number we lose on
  same study
- ✓ Binds ammonium and heavy-metal cations from the same runoff
  cation exchange, 108–146 meq/100 g
- ✓ Inert, non-flammable, no plastics stream in the waste record
  material property

Specification

CLINOPTILOLITE CONTENT **93–100% (XRD)**	CATION EXCHANGE CAPACITY **108–146 meq/100 g**
BULK DENSITY **650–850 kg/m³**	PH **7.0–8.0**
SPECIFIC SURFACE AREA **40 m²/g**	PORE DIAMETER **0.43 nm**
HARDNESS (MOHS) **2–3**	LOSS ON IGNITION **6.4–15.8%**
NA_2O **0.3–1.3%**	QUARTZ **0–2%**

How to use it

- **Bunds and fuel points:** a permanent thin layer, 1–3 mm, swept and replaced when loaded.
- **Response:** 25 kg sacks, or the 15 kg wall-mounted kit with scoop, bags and a procedure card where a kit has to be visible.
- **Drains:** 1.2 m mesh socks around gullies and bund outlets.
- **Soil and land-based spills:** <0.5 mm grade.
- Dispose of loaded material as contaminated inert waste under your normal waste stream — no plastics classification.

What it will not do

We will tell you where this loses. On raw absorbency, mineral sorbents are not the best available: published testing puts natural zeolite at about 2.2 g of oil per gram, expanded perlite reached 3.5 g/g in the same study, and engineered polypropylene goes several times higher again. If your only criterion is kilograms absorbed per kilogram bought, buy polypropylene. Choose a mineral when you want something inert, non-flammable, disposable without a plastics stream, that also takes ammonium and metals out of the same water, and that is cheap enough to leave in place.

The kit and the sock are bought on a schedule, not after an incident. If you are re-stocking spill stations this year, ask for one of each and put them next to what you use now.

Products and pack sizes

PRODUCT	GRADE	PACK
SPILL-GRAN-25	1–3 mm	25 kg sack
SPILL-FINE-20	<0,5 mm	20 kg sack
SPILL-KIT-15	1–3 mm	15 kg wall kit
SPILL-SOCK	1–3 mm	3 kg sock
SPILL-BB	1–3 mm	1.000 kg big bag

Request products

Tell us the application and the volume. We answer with a written quotation.

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