

NECOIL[®]

Environmental Spill Response Technology



LAND SPILL ABSORBENT PAD

NeoOil is a compound made from 100% natural, biodegradable organic fibers, designed to act on all types of hydrocarbon derivatives, as well as vegetable, mineral, and animal oils, and certain acids across a wide range of surfaces. It is an innovative, non-toxic, and inert product that delivers significantly faster performance than most conventional absorbents currently available. Once the spill has been absorbed and encapsulated, OilNeo supports the biodegradation of hydrocarbons through a bacteria-assisted process.

Product Technical Data Sheet

Appearance: Blue-green fiber

Pad dimensions: 40 cm × 50 cm

Weight: 1 kg

Specific weight: 0.20–0.22 N/m³

Ignition point: 280–290 °C. Non-flammable, including when wet.

Chemical resistance: Resistant to oils, greases, hydrocarbons, solvents, chlorides, and salt.

Moisture content: 5%

Ash content: 4%

Specific gravity: 0.8–0.9

Inert matter: 0.5%

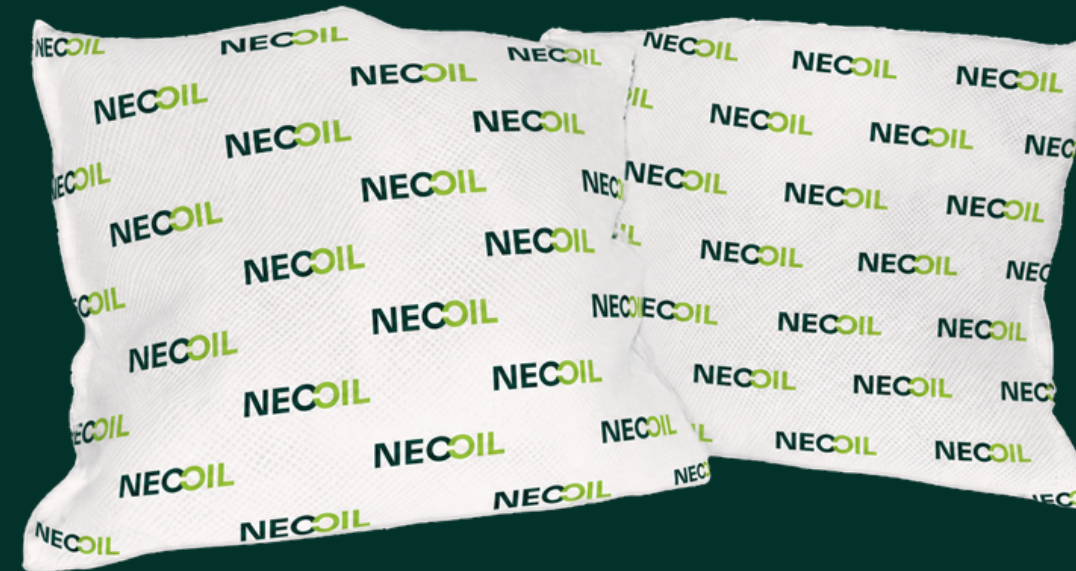
pH: 7 (neutral)

Absorption capacity per unit: Up to 7 liters

Units per box: 12

Packaging and Storage

It is designed to withstand all weather conditions, including snow and rain.



Advantages

Easy to transport and deploy in high-risk areas; capable of containing and absorbing all types of land-based spills.

Made from natural, biodegradable materials and non-toxic prior to use.

High hydrocarbon absorption capacity.

Absorbs leaks and helps prevent seepage into the soil.

Resistant to oils, greases, hydrocarbons, solvents, salts, and other substances.

Absorbs spills involving acids, hydrocarbons, and vegetable oils that may contaminate soil and water.

Considerations

We recommend complying with all applicable environmental regulations in force at the location where this process is carried out.

Please refer to the Technical Data Sheet before use.

BAGS

NeoOil is a compound made from 100% natural, biodegradable organic fibers, designed to act on all types of hydrocarbon derivatives, as well as vegetable, mineral, and animal oils, and certain acids across a wide range of surfaces.

It is an innovative, non-toxic, and inert product that works significantly faster than most conventional products currently available. After absorbing and encapsulating the spill, OilNeo supports the biodegradation of hydrocarbons through a bacteria-assisted process.

The fibers can be used to contain small accidental spills or spills caused by the improper handling of diesel fuel, gasoline, oils, greases, solvents, and other hydrocarbon derivatives on solid surfaces, soil, or water. It is ideal for use in small businesses, industrial facilities, and households.

Product Technical Data Sheet

Appearance: Blue-green fiber

Specific weight: 0.20–0.22 N/m³

Ignition point: 280–290 °C; non-flammable, including when wet

Chemical resistance: Resistant to oils, greases, hydrocarbons, solvents, calcium chloride (CaCl₂), and salts

Moisture content: 5%

Ash content: 4%

Specific gravity: 0.8–0.9

Inert matter: 0.5%

pH: 7 (neutral)

Available formats: 12 kg, 7 kg, 3 kg, and 1 kg

Absorption capacity per kilogram: Up to 7 liters

Packaging and Storage

OilNeo is available in 12 kg, 7 kg, 3 kg, and 1 kg bags. It is designed to withstand all weather conditions, including snow and rain.



Advantages

Easy to transport and deploy in high-risk areas.

Made from natural, biodegradable materials and non-toxic prior to use.

Provides a high hydrocarbon absorption rate.

Supports the recovery and reuse of contaminated soil.

Resistant to a wide range of substances, including oils, greases, hydrocarbons, solvents, and salts.

Absorbs spills involving acids, hydrocarbons, and vegetable oils that may contaminate soil and water.

Considerations

We recommend complying with all applicable environmental regulations in force at the location where this process is carried out. Please refer to the Technical Data Sheet before use.

FLOATING MARINE ABSORBENT BOOM

NeoOil is a compound made from 100% natural and biodegradable organic fibers, designed to act on all types of hydrocarbon derivatives, as well as vegetable, mineral, and animal oils, and certain acids across a wide range of surfaces.

It is an innovative, non-toxic, and inert product that works significantly faster than most conventional products currently available. After absorbing and encapsulating the spill, OilNeo supports the biodegradation of hydrocarbons through a bacteria-assisted process.

This product is manufactured from non-woven fabrics, filled with absorbent fibers, and fitted with snap hooks to facilitate connection between individual units and create a larger containment barrier. It is specifically designed to contain industrial spills on water surfaces and complies with all applicable International Maritime Organization (IMO) requirements.

Product Technical Data Sheet

Appearance: Blue-green fiber

Dimensions: 300 cm long × 25 cm in diameter

Weight: 7.8 kg

Specific weight: 0.20–0.22 N/m³

Ignition point: 280–290 °C; non-flammable, including when wet

Chemical resistance: Resistant to oils, greases, hydrocarbons, solvents, chlorides, and salts

Moisture content: 5%

Ash content: 4%

Specific gravity: 0.8–0.9

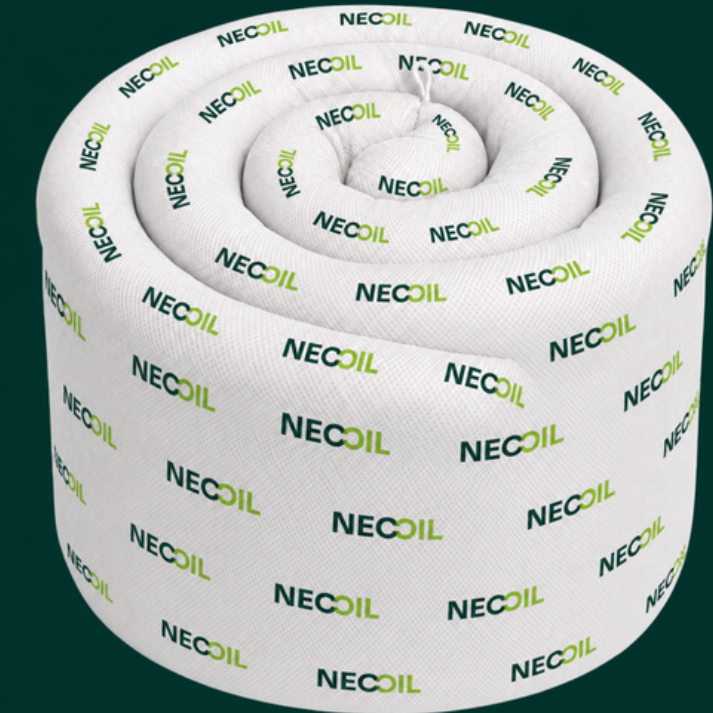
Inert matter: 0.5%

pH: 7 (neutral)

Absorption capacity: Up to 56 liters

Packaging and Storage

OilNeo is supplied as the absorbent filling material inside the 3-meter-long boom. It is designed to withstand all weather conditions, including snow and rain.



Applications

Marine vessels and equipment

Shipyards

Ports and marine terminals

Fuel distribution companies

Aquaculture facilities storing hazardous substances

Yacht clubs and marinas

Advantages

Easy to transport and deploy in high-risk areas.

Natural, biodegradable, and non-toxic product.

High hydrocarbon absorption capacity.

Supports the recovery and reuse of contaminated soil.

Resistant to oils, greases, hydrocarbons, solvents, salts, and other substances.

Absorbs spills involving acids, hydrocarbons, and vegetable oils that may contaminate soil and water.

Considerations

We recommend complying with all applicable environmental regulations in force at the location where the process is carried out.

Please refer to the Technical Data Sheet before use.

LAND ABSORBENT BOOM

NeoOil is a compound made from 100% natural and biodegradable organic fibers, designed to act on all types of hydrocarbon derivatives, as well as vegetable, mineral, and animal oils, and certain acids across a wide range of surfaces.

It is an innovative, non-toxic, and inert product that works significantly faster than most conventional products currently available. After absorbing and encapsulating the spill, OilNeo supports the biodegradation of hydrocarbons through a bacteria-assisted process.

This product is manufactured from non-woven fabric filled with absorbent fibers. It is specifically designed to contain industrial spills on land-based surfaces.



Product Technical Data Sheet

Appearance: Blue-green fiber

Boom dimensions: 250 cm long × 25 cm in diameter

Boom weight: 2.2 kg

Specific weight: 0.20–0.22 N/m³

Ignition point: 280–290 °C; non-flammable, including when wet

Chemical resistance: Resistant to oils, greases, hydrocarbons, solvents, calcium chloride (CaCl₂), and salts

Moisture content: 5%

Ash content: 4%

Specific gravity: 0.8–0.9

Inert matter: 0.5%

pH: 7 (neutral)

Absorption capacity: Up to 18 liters

Packaging and Storage

OilNeo is supplied as the absorbent filling material inside the 2.5-meter-long boom. It is designed to withstand all weather conditions, including snow and rain.

Advantages

Designed for the effective containment of industrial spills on land-based surfaces.

Can be arranged to create temporary containment pools, preventing the spill from spreading.

Environmentally responsible, as it contains no toxic volatile compounds.

Easy to handle and deploy.

Once used, the boom keeps the hydrocarbons encapsulated, helping prevent leakage of the absorbed material.

Each boom can absorb several times its own weight.

Multiple units can be connected to create larger spill-containment barriers.

Considerations

We recommend complying with all applicable environmental regulations in force at the location where the process is carried out. Please refer to the Technical Data Sheet before use.

Organic, Oleophilic and Flame Retardant Absorbent Mats

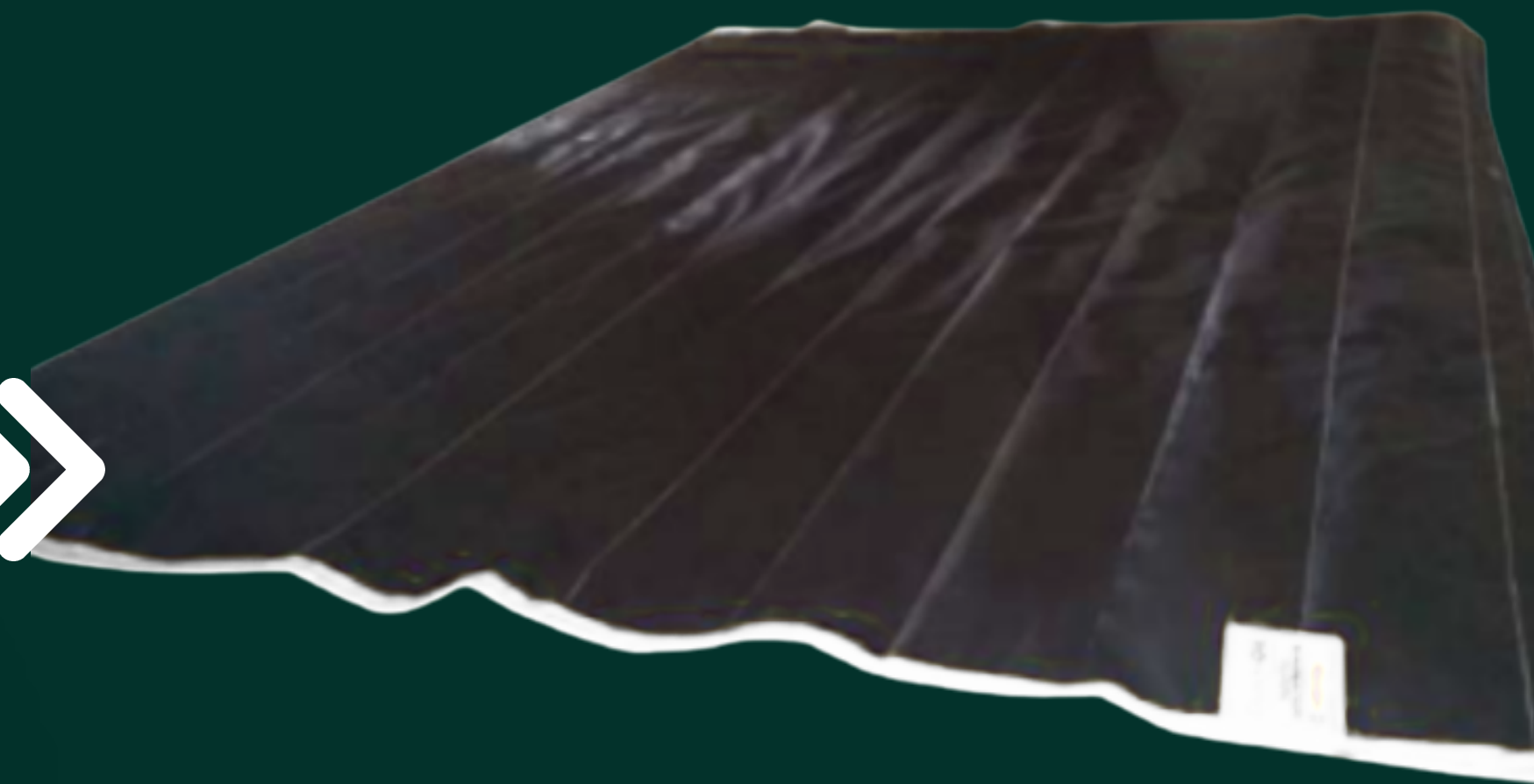
NeoOil absorbent mats are designed to prevent and control hydrocarbon spills in oil and gas, mining, and industrial operations. Manufactured with three layers of polypropylene and filled with 100% natural, biodegradable organic fibers, they absorb and encapsulate hydrocarbons without absorbing water, preventing contaminants from reaching the soil or groundwater. They are flame-retardant, non-toxic, durable, easy to install, and enable dry cleanup. The mats must be stored in a dry place and, once contaminated, disposed of in accordance with all applicable regulations.

Construction Features

The mat consists of three layers: a permeable, durable, and flame-retardant top layer; a middle layer that contains and reinforces the absorbent fiber; and an impermeable bottom layer that prevents hydrocarbons from coming into contact with the soil. It includes six grommets for secure fastening and is filled with 100% natural, biodegradable, flame-retardant, and hydrophobic material capable of safely absorbing and encapsulating hydrocarbons.

Packaging and Storage

The product should be stored in a dry place, in its original sealed packaging and preferably on pallets. It is recommended for use within three years of the packaging date. Once contaminated, it must be disposed of in accordance with the regulations applicable in each jurisdiction.



Advantages

- Incorporate a flame-retardant treatment.
- Reduce the risk of hydrocarbon contamination.
- Lower final waste-disposal costs by helping maintain cleaner surfaces and soil, while eliminating the need to clean the area protected by the mat.
- Help prevent groundwater contamination caused by infiltration or leaching.
- Do not generate odors upon contact with water and retain their absorption capacity. Thanks to their hydrophobic properties, the mats continue absorbing hydrocarbons even when wet.
- In the event of damage caused by tensile stress, tearing, or any other factor, any material that may be released into the environment does not produce adverse effects on the surrounding flora and fauna, as it is natural and biodegradable.

Considerations

In the presence of strong acids or alkalis, the product retains its absorption capacity; however, it must be removed promptly, as its organic composition may be chemically affected. A compatibility test must be carried out before use. Please refer to the list of substances that have already been evaluated. Although the fiber is non-toxic and flame-resistant, once it absorbs a hazardous substance, it takes on the properties of that substance and must thereafter be treated as hazardous waste.



FLOATING ABSORBENT BOOM

Floating booms consist of three main components: the float, skirt, and ballast. Manufactured from PVC-coated polyester, they feature a buoyant element housed within a flotation chamber and are assembled in sections approximately 1.5 metres long. The buoyant element consists of a rigid polyethylene foam cylinder. Their cylindrical floats provide high buoyancy and rapid response to water movement. Due to their construction, these booms are suitable for containing hydrocarbon pollution in port and marine operations, as well as in calm rivers and, more generally, across most water surfaces. They are lightweight, require minimal personnel for installation, and can be deployed quickly and easily. They are ideal for situations requiring an immediate response.

Boom Components

Float: Upper section that provides buoyancy to the entire unit.
Skirt or curtain: Intermediate section designed to prevent hydrocarbons from passing beneath the floats.
Ballast: Located along the lower edge, it includes a chain that stabilizes the entire structure, keeps the skirt in a vertical position, and prevents currents from carrying hydrocarbons underneath the boom.
Connectors: Allow multiple boom sections to be joined together. They are standardized ASTM Z-type quick connectors manufactured from aluminium.
Tension cable: 5 mm galvanized steel cable with a 6×19+1 construction, designed to increase tensile strength and work in conjunction with the ballast chain.

Product Presentation

Cylindrical booms with a total length of 25 metres, divided into sections measuring between 150 and 170 cm. They are coated with a material resistant to ultraviolet radiation and chemicals.

Floating Boom 1

Diameter: 25 cm
Skirt: 50 cm
Overall height: 90 cm
Connector: 100 cm
Freeboard: 25 cm
Ballast tension cable: 8 mm

Floating Boom 2

Diameter: 20 cm
Skirt: 20 cm
Overall height: 55 cm
Connector: 55 cm
Freeboard: 20 cm
Ballast tension cable: 6 mm

Floating Boom 3

Diameter: 33 cm
Skirt: 50 cm
Overall height: 100 cm
Connector: 110 cm
Freeboard: 33 cm
Ballast tension cable: 8 mm

ABSORBENT PAD

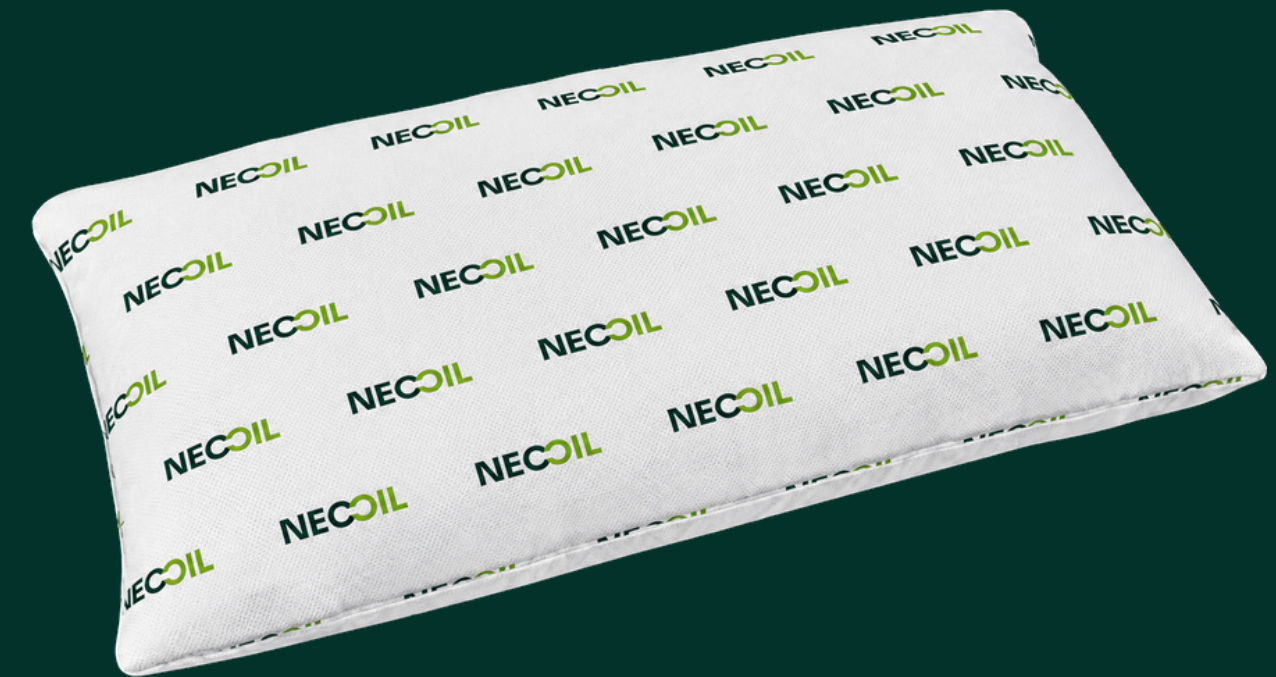
The workshop absorbent pad consists of a polypropylene outer cover filled with 100% biodegradable organic fibers capable of absorbing hydrocarbons, vegetable oils, and other substances, including acids and alkalis. For acids and alkalis, the compatibility procedure must be reviewed before use. It is a non-toxic, inert product that, due to the unique structure of its fibers, not only absorbs but also encapsulates all types of spilled hydrocarbons on both land and water surfaces.

Applications

The absorbent pad is suitable for controlling leaks, drips, and splashes in maintenance workshops, automotive repair shops, lubrication centers, laboratories, machine shops, and similar facilities. The spilled substance is retained within the pad and fully isolated from the floor, helping prevent contamination. The pad features one absorbent surface and one impermeable surface; even when saturated, it does not release or drip the absorbed substance.

Storage

The product must be stored in a dry place, in its original sealed packaging, and preferably on pallets. It is recommended for use within three years of the packaging date. Once contaminated, it must be disposed of in accordance with the regulations in force in the applicable jurisdiction.



Advantages

- High absorption capacity and performance.
- Highly hydrophobic: repels water.
- Non-flammable; it only begins to char at 280 °C.
- Its encapsulation capacity prevents leakage and helps avoid secondary contamination.
- Made from 100% natural and biodegradable materials.
- Environmentally friendly and safe.
- Enables dry cleanup without the need for water.
- Non-toxic in its original state, provided the fibers have not been contaminated.
- Quick and easy to use and deploy.
- The product has no expiration date; however, use within three years of the packaging date is recommended.

Comparative performance and sustainability table

DESCRIPTION – NEO OIL PRODUCT LINE	 ABSORPTION RATIO KG/LT		 SUSTAINABLE – BIODEGRADABLE AND HYDROPHOBIC		 SUITABLE FOR CIRCULAR ECONOMY		 SINGLE-USE ONLY (DISPOSED OF AS HAZARDOUS WASTE)	
	NEO OIL	WEIGHT	COMPETITION	NEO OIL	COMPETITION	NEO OIL	COMPETITION	NEO OIL
1. LOOSE FIBER	~7 Lt	1 kg	X	✓	X	✓	✓	X
2. ABSORBENT PAD 50 CM X 40 CM	~7 Lt	1 kg	X	✓	X	✓	✓	X
3. FLOATING PAD 50 CM X 40 CM	~5 Lt	700 g	X	✓	X	✓	✓	X
4. ABSORBENT BOOM 125 CM LONG X 6 CM DIAMETER	~2 Lt	2 kg	X	✓	X	✓	✓	X
5. MAT 250 CM X 50 CM	~35 Lt	5 kg	X	✓	X	✓	✓	X
6. FLOATING MAT 250 CM X 50 CM	~28 Lt	4 kg	X	✓	X	✓	✓	X
7. ABSORBENT MAT 200 CM X 500 CM	~128 Lt	25 kg	X	✓	X	✓	✓	X
8. MINI BOOM 125 CM X 7.5 CM	~4 Lt	600 g	X	✓	X	✓	✓	X
9. POLY BOOM 250 CM LONG X 7 CM DIAMETER	~14 Lt	2 kg	X	✓	X	✓	✓	X
10. POLY HEAVY DUTY BOOM 320 CM (L) X 15 CM (D)	~70 Lt	10 kg	X	✓	X	✓	✓	X

 (**) See detailed technical data sheet.



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