



Technical Data

3M™ Petroleum Sorbents

Use

For control of spills of hydrocarbons on water or land. 3M™ Petroleum Sorbents repel water and will float (as long as surfactants are not also present).

Product Description

3M™ Petroleum Sorbents are made from inert, synthetic fibers principally polypropylene and polyester. They are available in a wide range of formats and are lightweight and nominally dust-free. They have a high adsorption capacity which minimizes the amount of waste for disposal. HP Series antistatic products have a charge dissipating polypropylene scrim and are packaged in charge dissipating film.

Color

White (High Capacity & T Series sheets and rolls), white with multi-colored material flecks (Medium Capacity sheets and rolls), and red / orange (booms and pillows). Medium Capacity appearance may vary due to recycle content used.

Selection Guide

- Antistatic Products - The HP antistatic products are designed for use in low temperatures and low humidity to help reduce the risk of sparking.
- Booms - May be connected together to form barriers. These are anchored at each end and positioned across still or moving water to contain, channel and adsorb oil spills.
- Drum covers - Rectangular pads with perforated circles designed to fit on top of drums.
- Folded - Combines four formats in one product. Folded sorbents are perforated every 16 inches (40 cm) and can be unfolded to be used as booms, pillows, sheets or rolls.
- Minibooms - Generally used in on-land applications to contain and adsorb spills.
- Pillows - Used for bulk adsorption of oil on land or water. Particularly useful in drains to act as interceptors.
- Pads - A highly adaptable format. They can be used on water to pick up oil, to cover large surface areas, and in wiping applications.
- Rolls - For fast coverage of large surface areas, including water. They can be easily torn to length and can be used as a mat.
- Spill Kits and Response Packs - May contain different types of sorbents and temporary disposal bags. Compact for easy storage and quick response.
- Sweep - Used to pull over water to remove surface films.





Typical Liquids Adsorbed

3M™ Petroleum Sorbents are suitable for adsorbing hydrocarbons and non-polar organic solvents, eg., oil, paraffin, diesel, benzene, alcohols, toluene, trichloroethane, esters and ethers.

Limitations of Use

3M recommends that a compatibility test with the liquid of interest be carried out prior to using the sorbent. For use in temperature over 60°C it is essential that such a compatibility test is made prior to use. Do not use on aqueous liquids or aggressive liquids, strong acids, caustic oxidizers or reactive chemicals. In particular there is a risk of degradation with the following: oleum, chlorosulfonic acid, liquid bromine, fuming nitric acid, chromic acid, sulfuric acid and hydrogen peroxide.

Precautions

3M™ Petroleum Sorbents may be used to adsorb hazardous materials. Adequate precautions should be taken when handling or storing hazardous / flammable materials and appropriate personal protective equipment should be worn. Users should be informed of the risks incurred in use, storage and disposal of sorbents containing hazardous materials.

Disposal

Dispose of used sorbents only in accordance with local and national regulations for the materials adsorbed.

Waste Minimization

3M recommends that waste streams should be minimized wherever possible. 3M sorbents promote minimization by only being a small part of the total waste. In addition where laws allow, 3M™ Petroleum Sorbents can be disposed of by incineration yielding less than 0.2% ash (ASTM D-482). The high energy value of the sorbents is also favorable for incineration and waste-to-fuel systems.

Sustainability

High Capacity sorbents contain at least 25% recycled content by weight. Medium Capacity sorbents contain at least 50% recycled content by weight.

Adsorption / Sorbency

The sorbent capacity quoted in the table below is based on testing per ASTM F 726 "Standard Test Method for Sorbent Performance of Adsorbents." In brief, the sorbent samples were immersed in a "medium" density oil, drained and weighed. In the 1981 version of the standard, samples are immersed for a variable period of time in an attempt to make sure the sorbent is saturated. The sorbent is then drained horizontally. In the 2006 version of the standard, samples are immersed for 15 minutes and then most types are drained vertically. Capacity according to both versions of the standard is presented. **Data presented are nominal; there will be variability in sorbent performance.** Capacity and speed of adsorption will differ depending on the liquid's polarity, surface tension and viscosity. Ambient temperature may also affect results. Therefore, results will vary by application.



Product Number	Size	Number / Case	Shipping Case Weight lb (kg)	Nominal capacity per case ASTM F 726-81 gallons (liters)	Nominal capacity per case ASTM F 726-06 gallons (liters)
Pads					
HP-156 high capacity	17 in x 19 in (43 cm x 48 cm)	100	9 (4.1)	37.5 (142)	26 (98)
HP-157 high capacity	34 in x 38 in (86 cm x 96 cm)	50	17 (7.7)	75 (280)	51 (193)
HP-255 high capacity	17 in x 19 in (43 cm x 48 cm)	50	9 (4.1)	33 (120)	19 (72)
HP-556 high capacity static resistant	17 in x 19 in (43 cm x 48 cm)	100	9 (4.1)	37.5 (142)	26 (98)
HP-557 high capacity static resistant	34 in x 38 in (86 cm x 96 cm)	50	17 (7.7)	75 (280)	52 (196)
MCP medium capacity	15 in x 17 in (38 cm x 43 cm)	100	6 (2.8)	18 (68)	13.5 (51)
T-151	17 in x 19 in (43 cm x 48 cm)	200	21 (9.5)	43.5 (165)	36 (135)
T-156	17 x 19 in (43 cm x 48 cm)	100	22 (10.0)	40.5 (153)	33 (125)
T-157	34 in x 38 in (86 cm x 96 cm)	50	40 (18.2)	81 (310)	66 (250)
Rolls					
HP-100 high capacity	38 in x 144 ft (96 cm x 44 m)	1	18 (8.2)	73 (280)	52 (196)
HP-500 high capacity static resistant	38 in x 144 ft (96 cm x 44 m)	1	18 (8.2)	73 (280)	53 (199)
MCP medium capacity	15 in x 150 ft (38 cm x 45 m)	1	7 (3.1)	19 (72)	14 (53)
MCP medium capacity	25 in x 150 ft (63 cm x 45 m)	1	11 (5.1)	30 (114)	22 (83)
T-100	38 in x 144 ft (96 cm x 44 m)	1	40 (18.2)	84 (320)	67 (254)
T-190	19 in x 144 ft (48 cm x 44 m)	1	20 (9.1)	42 (160)	34 (127)



Product Number	Size	Number / Case	Shipping Case Weight lb (kg)	Nominal capacity per case ASTM F 726-81 gallons (liters)	Nominal capacity per case ASTM F 726-06 gallons (liters)
Booms					
T-270	8 in diameter x 10 ft (20 cm diameter x 3 m)	4	55 (25.0)	80 (300)	54 (204) Not fully saturated after 15 minute test
T-280	Two side-by-side 4 in diameter x 10 ft (10 cm diameter x 3 m)	4	28 (12.7)	40 (150)	27 (102) Extrapolated from T-270 testing. Not fully saturated after 15 minute test.
Drum Cover					
P-DC22DD high capacity	26 in x 26 in (66 cm x 66 cm)	25	5 (2.3)	19 (72)	13 (48)
Folded					
P-FL550DD high capacity	5 in x 50 ft (12 cm x 15 m)	3	14 (6.4)	31.5 (120)	26 (98)
Minibooms					
T-4	3 in diameter x 4 ft (7.5 cm diameter x 121 cm)	12	13 (5.9)	12 (45)	13 (49)
T-8	4 in diameter x 8 ft (7.5 cm diameter x 243 cm)	6	13 (5.9)	12 (45)	13 (49)
T-12	4 in diameter x 12 ft (7.5 cm diameter x 365 cm)	4	13 (5.9)	12 (45)	13 (49)
Pillows					
T-30 mini-pillow	7 in x 15 in (17 cm x 38 cm)	16	7 (3.2)	8 (30)	9 (34)
T-240	5 in x 14 in x 38 in (12 cm x 35 cm x 96 cm)	10	28 (12.7)	35 (130)	41 (155)
29026	7 in x 15 in (17 cm x 38 cm)	16	7 (3.2)	8 (30)	9 (34)
Sweep					
T-126	21 in x 100 ft (53 cm x 30 m)	1	15 (6.8)	25 (95)	16 (61)
Spill Kits					
P-SKFL5	P-FL550DD at 26 ft (7.9 m)	3 rolls	8 (3.4)	15 (57)	13 (50)
P-SKFL31	P-FL550DD HP-156	2 rolls 30 pads	18 (8.1)	31 (117)	25 (93)
SRP-Petro	T-4 HP-156	9 mbms 15 pads	13 (5.8)	12 (45)	15 (56)



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