

3M™ Maintenance Sorbents

Use

For control of accidental and routine leaks, drips and spills of oils, lubricants and other non-aggressive liquids found commonly in industry. The sorbents are designed to help maintain a clean and safe working environment.

Product Description

3M™ Maintenance 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 absorption capacity which minimizes the amount of waste for disposal.

Color

Light grey – darkens when wet as an indication of saturation level.

Selection Guide

- Drum covers – Rectangular pad with perforated circle designed to fit on top of 55 gallon drum.
- Folded – Combines four formats in one product. It is perforated every 16 inches (40 cm) and can be unfolded to be used as booms, pillows, sheets or rolls.
- Minibooms – Generally on-land applications to contain and adsorb spills.
- Pillows – Used for bulk absorption 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 covering large surface areas and in wiping applications.
- Rolls – For fast coverage of large surface areas of water, they can be easily torn to length. Also used as a mat to keep shorelines or banks clean and to place used sorbents upon.
- Rugs – Absorbent rugs help keep floors clean and safe by absorbing oils and grease from shoes, equipment and vehicles.

Typical Liquids Adsorbed

3M™ Maintenance Sorbents are suitable for adsorbing oils, lubricants, petrol cutting fluids and coolants. They absorb most liquids in the following chemical groups: alcohols, esters, halocarbons, hydrocarbons, silicones.



Liquids	Examples
Coolants/Heat Transfer Fluids	Water, Alcohol, Oils, Glycols
Lubricants	Oils, Water, Silicone Oils
Hydraulic Fluids	Hydraulic Oils, Water, Oil/Water Emulsions
Cutting Oils/Forming Fluids	Oils (mineral, emulsified)
Solvents	Turpentine, Toluene, Xylene, Paraffin
Crankcase Oils	Oils (natural, synthetic)

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 60C it is essential that such a compatibility test is made prior to use. Do not use on 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™ Maintenance Sorbents are not in themselves hazardous products, however, they take on the characteristics of the liquids they adsorb. 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 used sorbents.

Disposal

Dispose of used sorbents only in accordance with local and national regulations. Disposal companies should be consulted for their recommendations.

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 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.

Absorption / 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 20 weight motor 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. Even though the sorbents have not changed, the test methods have, and thus the numbers are different. **These numbers are nominal; there will naturally be variability in sorbent performance.** Capacity and speed of absorption will differ depending on the liquid’s polarity, surface tension and viscosity. Ambient temperature may also affect results. Therefore, these numbers may not be directly applicable to your specific use.

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)
Drum Cover					
M-DC22DD	26 in x 26 in (66 cm x 66 cm)	25	8 (3.6)	19 (72)	13 (49)
Folded					
M-FL550DD high capacity	5 in x 50 ft (12 cm x 15 m)	3	18 (8.2)	31.5 (119)	24 (90)
Minibooms					
M-MB304	3 in diameter x 4 feet (7.5 cm diameter x 121 cm)	12	13 (5.9)	12 (45)	13.5 (51)
M-MB308	4 in diameter x 8 feet (7.5 cm diameter x 243 cm)	6	13 (5.9)	12 (45)	13.5 (51)
M-MB312	4 in diameter x 12 feet (7.5 cm diameter x 365 cm)	4	13 (5.9)	12 (45)	13.5 (51)
Pillows					
M-PL715	7 in x 15 in (17 cm x 38 cm)	16	7.3 (3.3)	8 (30)	9 (34)
Pads					
M-PD720GG	7.5 in x 20.5 in (19 cm x 52 cm)	100	12.6	31.5 (119)	--
M-PD1520DD	15.5 in x 20.5 in (39 cm x 52 cm)	100	11.75 (5.3)	37.5 (142)	25 (94)
Rolls					
M-RL15150DD	15.5 in x 150 ft (39 cm x 45 m)	1	11.4 (5.2)	31 (117)	22 (83)
M-RL38150DD	38 in x 150 (96 cm x 45 m)	1	25.9 (11.7)	76 (287)	54 (204)
Rugs					
M-RG36300E	36 in x 300 ft (91 cm x 91 m)	1	55 (25)	32 (121)	--
M-RGC36100E with coating	36 in x 100 ft (91 cm x 30 m)	1	24 (10.9)	10.5 (39)	--

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Important Notice to User:

Technical Information: The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.

Product Use: Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for user's particular purpose and suitable for user's method of application.

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