



Safety Solutions for the Oil, Gas & Petrochemicals Industry



Continuity of operations is vital to the success of your business, and worker safety is of paramount importance.

The 3M range of respiratory aids, hearing protectors and protective material will help you to safeguard the well-being of your personnel. Our products can help you to protect your plant and pipelines from the hazards associated with spills.

At 3M, we are proud to be at the forefront of environmentally sound business practices. The products we offer can help you reduce waste, lessen impact on the environment and create a safer, more profitable environmental regime.

In the Oil, Gas and Petrochemicals industry, specification approval and testing is key. Our products have been rigorously tested to help ensure that they meet the most stringent industry standards. Our product range and training can help you to streamline your business and maximise your operating potential.



Respiratory Protection

3M Filtering Facepiece Particulate Respirators use a variety of technologies to help protect against a broad range of particles, nuisance odours and OSHA substance specific contaminants. They are approved by the US National Institute for Occupational Safety and Health (NIOSH).

3M Elastomeric Facepiece Respirators, Filters and Cartridges provide a high level of comfort and exceptional respiratory protection. They are NIOSH-approved for use against organic vapors, acid gases, ammonia, methylamine, formaldehyde and particles when using the appropriate cartridges and filters.

3M Personal Air Monitoring Systems are used to monitor an employee's exposure to certain organic vapours. The exposure level is determined by diffusion sampling and then compared to an industry standard to determine whether the exposure presents health hazards.



Hearing Protection

3M Foam Ear Plugs conform to the unique shape of each ear for excellent hearing protection and comfort.

3M Reusable Ear Plugs are soft, premolded earplugs designed to fit comfortably into the ear canal. They may be washed and reused, and come with optional cords and carrying cases.

3M Ear Muffs feature large, lightweight multi-position ear cups with soft sealing cushions for excellent fit and comfort.



Eye Protection

3M Safety Goggles are lightweight with air vents to reduce fogging and the adjustable strap provides a comfortable fit.



Reflective Wear

High-visibility safety apparel containing 3M Scotchlite™ Reflective Material provides enhanced visibility for workers in high risk, low visibility work environments. This reflective material can be used on coveralls and safety vests.



Protection During Welding

Now, welders can always see their work at comfortable light levels, with constant eye and face protection. 3M Speedglas® Auto-Darkening Lenses turn dark the moment an arc is struck and turn transparent again when welding stops. The lenses eliminate the neck strains from “helmet flipping” while greatly increasing the accuracy of electrode placement. This, in turn, reduces the need for grinding and rework.

With 3M Speedglas Auto-Darkening Lenses systems, welders can get into tight, cramped spaces with full protection and have a clear view-in effect, making extremely awkward welds a lot easier.



Sorbents

Petroleum, Maintenance and Chemical sorbents, pads and booms

3M Sorbents

3M Sorbents contain and help control potentially dangerous spills of liquids. They are made from specially treated polypropylene microfibres and draw spills away immediately. The unique capillary action traps the liquids in millions of tiny pockets so clean-up is fast. And that reduces exposure to your people and risk to the environment. They are incinerable and produce minimal ash residue.

- 3M Petroleum Sorbents are designed specifically for controlling, cleaning and recovering oil and other petroleum-based fluids. They can also be used in-plant for equipment leaks and spills. They repel water while absorbing petroleum-based fluids.
- 3M Chemical Sorbents can handle acids (including hydrofluoric acid), bases and coolants, and they resist reactions with most hazardous chemicals. They also absorb petroleum-based fluids, non-aggressive chemicals and aqueous-based solutions.



3M Spill Kits and Response Packs

Chemical folded sorbent spill kits are the perfect solution for emergency response flexibility. With all of the features of a 3M Folded Sorbent, they can be used with most hazardous liquids. The 3M Chemroll 5-gallon Spill Kit is compact for easy storage – ideal for rapid responses. It can be squeezed and molded into confined areas such as behind truck seats and in car trunks. Encased in a clear plastic shrink-wrap, it resists damage from exposure.

Safety And Security Films

3M Scotchshield™ Ultra Safety and Security Film

These are tough, transparent or colored films that bond tightly to the interior or exterior of windows or glass doors to reduce damage and injury caused by flying glass, and to resist entry if the window is broken. The films help protect against the damaging effects of broken windows caused by explosions, violent weather, vandalism or accidents. Films can also reduce solar heat gain and UV damage to interior materials.

Features and Benefits:

- Proprietary tear and penetration resistant polyester
- High mass clear adhesive – holds glass together
- Tough acrylic abrasion resistant coating
- Unique over-coat adhesive system
- UV Absorbers that block UV light
- Available in various performance levels



Anti-Slip Products

3M Safety-Walk™ Phosphorescent Anti-Slip Tape

Features and Benefits:

- Grain artificial abrasives (aluminum oxide) applied over polyester film
- Comfortable tread, visual signaling for drilling rigs, steps of storage tanks, emergency exits and escape routes, and plant work areas (both external and internal)
- Luminous strip provides night visibility
- Can be combined with other 3M applications, Eg. Safety-Walk™ Phosphorescent Anti-Slip Tape on external steps of storage tanks combined with 3M Greptile™ gripping material for railings

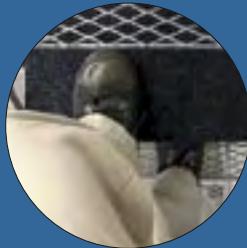


3M Safety-Walk™ Petrochemical Traction Matting

3M Petrochemical Traction Matting provides traction and at the same time, allows oil, grease and other liquids to pass through with its open construction. The walking surface stays clean, helping to keep work environments safe.

Features and Benefits:

- Made of a unique blend of synthetic fibers and abrasive particles
- Easily power-washed
- Long lasting
- Perfect for tough and slippery areas



Safety Awareness

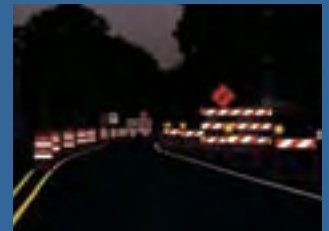
3M Traffic Safety Systems

3M Traffic Safety Systems materials can be used in plant signage - pedestrian crossings, speed limit, hazardous materials, hazardous materials storage, and off-limit areas.

Features and Benefits:

- Very high brightness – increase night-time visibility distance
- High colour and brightness durability
- Remains bright from far to close distances
- Easy to clean
- 7 years warranty

3M Scotchlite™ Diamond Grade™ Reflective film provides outstanding durability and reflectivity to permanent work zone signs and devices, and help ensure the safety of construction crews. Applications include company identification on tankers that transport fuel, as well as identification on fuel dispensers.



3M Conspicuity Markings can be used as rear and side markings of moving and stationary objects to improve visibility from a distance. Its high brightness and colour durability make it suitable for tankers, emergency vehicles, trucks, fence, and gates.

Industrial Signage

3M Commercial Graphics

3M Floor Graphics are a creative way to communicate, promote an image or sell products by capturing attention with bold, high impact graphics.

Scotchcal™ Luminous Graphics are highly reflective durable films designed for multi-color emblems and traffic control signs for the same appearance day or night.

They can be used for company identification or as safety markings on plant area stairways and storage tanks.



Contact us at:



3M Technologies (S) Pte Ltd

9 Tagore Lane
Singapore 787472
Tel: 65-6454 8611
Fax: 65-6552 2116
Email: sg_ogp@mmm.com
Website: www.3M.com.sg

Disclaimer: All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product which are not contained in 3M's current publications, or any contrary statements contained on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.