Explosafe

A new development in moving high explosives ...

with many more applications

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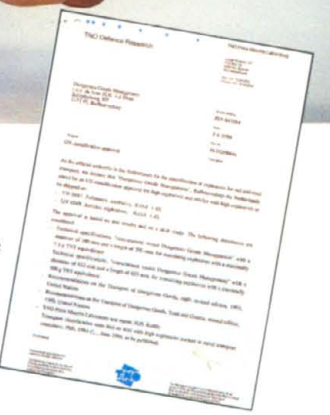
Explosafe 500

Regrettably our world is shocked by terrorist actions, apparently at random locations and with an increasing level of violence. In particular, bomb warnings and other assaults with explosives seem to be routine. This development necessitates providing improved protection for the general public, not only at airports and in railway stations, but also in government buildings and even at carnival grounds. The police forces, public security and surveillance organizations search people and their luggage and also scan public areas for explosive devices. After they have been located, the explosives have to be carefully removed and subsequently stored in a safe area until such time as experts can safely transport the devices out of the endangered area so as to arrange further investigation and final disposal. These public areas have to be evacuated, which in turn leads to severe disruptions in rail, road and airline schedules. Apart from the inconvenience to the public, the financial damages can be devastating.

Dangerous Goods Management (DGM), for many years experts in safe transportation, have found amazing solutions to this problem and now offer fully tested Explosafe containers to the security industry.
There are two types of containers:
the Explosafe 7.5, which is designed for the transport of samples of explosive devices, and the Explosafe 500, which offers multiple applications. The Explosafes are respectively designed to withstand detonation forces of 7.5 grams (0.26 oz.) and 500 grams (17.6 oz.) of TNT or TNT explosive equivalent.

The explosives need to be placed in the center of the Explosafe. A rubber insert ensures that small devices such as hand grenades are automatically centered. When larger devices are loaded, such as bombs or mortar shells, special rubber rings are supplied to center these explosives in the container. After loading the Explosafe is firmly closed with a strong screw-type lid, which can be secured by manual force.
A special dolly facilitates the removal of the explosive devices to a safer place by just one person. Staircases can also be negotiated with ease. Any color can be applied to the containers so as to ensure that the Explosafe has a neutral appearance when it is taken through public areas, without causing any alarm or panic reactions. Even if the explosives inside the Explosafe detonate during transport or storage, the noise of the blast is muffled and there will be no danger to the surrounding areas or the environment.

Explosafe 7.5



A series of tests has demonstrated that Explosive containers fully absorb the blast.

The tests were carried out by the T.N.O., the Netherlands Organization for Applied Scientific Research, under the supervision of military personnel.

In the first test, the Explosafe 7.5 was loaded with 5 electrical detonators (#8). After detonation the exterior of the Explosafe seemed completely intact. The lid could even be easily unscrewed.

In the second test, a heavy steel cylinder with grooves was used inside the Explosafe 500. The cylinder was charged with 340 grams (12 oz.) of the powerful PETN plastic explosive, which is equivalent to 500 grams (17.6 oz.) of TNT. The combination creates a very effective bomb with a powerful fragmentation effect. The bomb was then centered in the Explosafe 500, the container was placed in a huge military bunker and the charge was detonated electrically. The total power of the explosion, which would be strong enough to destroy a medium-sized building, was fully absorbed by the Explosafe 500, although minor deformation was visible on the outside of the container.

To ensure safe transport by air, for instance on a passenger aircraft, each Explosafe container was individually packed in a specially designed box and subjected to the United Nations Bonfire Test for 30 minutes.

The protection provided by this new UN container proved to be satisfactory. The bomb inside the Explosafe 500 did not detonate. This indicates that over a prolonged period of time the high temperatures, up to 1,200 degrees Celsius or some 2,000 degrees Fahrenheit, had no effect at all. In the Explosafe 7.5, the effect of the exploding detonators was fully absorbed within the walls of the Explosafe container. The results of the tests prompted certification by the T.N.O. testing institute and by the Civil Aviation Authority: both Explosafe containers are totally safe. Neither the surroundings nor the environment was affected in any way during or after testing.

Explosafe: an effective and efficient investment in safety

DGM's Explosafe 500 is an efficient device which certainly can prevent hazard and inconvenience, or worse, to the general public; but first and foremost it safeguards the owners and operators of public areas against the financial consequences which may ensue when explosives are found on their territories. Such explosives can now be handled safely.

The Explosafe is a low-cost instrument which is essential for improving safety at airports, railway stations, government buildings and other public areas.

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