explosafe®

EXPLOSION SUPPRESSION SYSTEM FOR **NAVAL APPLICATIONS**

The Situation

Fire prevention and protection are two of the most critical aspects of ship construction and maintenance. Because an onboard fire can devastate a vessel and threaten the lives of its passengers, engineers must use proper design and technology to avoid fires and explosions, preventing them from spreading between compartments, minimizing the level of damage and protecting the safety of the crew.

Safeguarding the fuel tanks and the onboard fuel storage containers is vital in minimizing the risks.

The solution offered by the Explosafe® Explosion Suppression System is comprehensive and specific. It has to be, to effectively protect the lives of seafarers, the safety of vessels and the maritime environment.

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EXPLOSAFE THE SOLUTION

ITALIAN NAVAL REGISTER
Declaration Nr. 91/DG/11217/IN

On request of the company Explosafe, several tests have been carried out on the fuel tanks filler material called

Explosafe®

to determine the product's explosion prevention ability in fuel tanks potentially explosive atmospheres.
A the end of the tests, described in the RINA Report Nr. 91/DG/11217/IN dated 20/11/1991,

It is here confirmed

That the tanks filled with the Explosafe® material have passed the carried out fire tests with no explosions.
The present declaration is released for its use in accordance with the existing laws and regulations.

Report Nr. 91/DG/11217/IN CONCLUSIONS:

The Explosafe® material has proved its effectiveness in suppressing explosions during tests carried out in laboratory (flame tube test) and during direct exposure to fire. The product is therefore qualified for installations

The Solution

The "Explosafe® Explosion Suppression System" is a practical and innovative method of keeping fuel fires under control and preventing fuel containers from exploding. Made of an aluminium alloy and shaped with a three-dimensional honeycomb structure, it is available in different forms and can be customised to fit every container.

Initially developed for explosion protection purposes, Explosafe® has a variety of applications, wherever dangerous good are stored or handled. Explosafe® guarantees the following advantages:

a. Inertisation of every kind of tanks or container and great reduction of the risks related to fires.
b. Liquid stabilisation (increased safety by dangerous good transportation)
c. Mechanical resistance enhancement (crash test)
d. Elimination of Electrostatic charges
e. HC (Hydrocarbons) emissions reduction (environmental aspect)

Not last, being a "passive" security system, does not require any activation device offering a "Full-Time, Maintenance Free" complete protection.