



CERTIFICATE OF INSPECTION

The Undersigned surveyor to Bureau Veritas acting within the General Terms and conditions of Bureau Veritas which governs such Inspection, did perform the inspection and the required tests during the month of August 2007 as detailed hereunder on randomly checked samples from batches of produced at 32Group Bard-Pyro Warehouse No. CC04, JAFZA, Dubai, United Arab Emirates.

I. Product

BARD- Anti-Explosive and Anti-Evaporation

II. Product Specification

Scope:

The requirements are specified for Bard- Anti Explosive alloy which intended to be used in case of explosion.

Definition:

Bard- Flame Retardant and Anti-Evaporation Alloy

Bard is specially designed honey comb shaped physical structure made of high quality aluminium alloy. Though it has particular heat abstraction properties, Bard functions as a flame retardant for tanks containing highly flammable liquids there by eliminating the chances of any explosion.

The withstanding ability against petroleum products like LPG, Petrol, Kerosene, and the recyclable nature makes it environment friendly.

III. Supplier of Bard Anti-Explosive Material

32Group Bard-Pyro
Warehouse No. RA08CC04
P.O Box 124289
Jebel Ali, Dubai
United Arab Emirates

DBA.8.07.A429/C1002/EAR



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IV. Scope of Inspection

Functional Test

Dimension:

Width of Aluminium alloy before the meshing process – 12.5 cm

Width of Bard – 18 cm to 19 cm

Shape of the perforations – Hexagonal

Distance between edge to edge of a unit perforation – 5 mm to 7 mm

Diameter of a Bard Balls – 2.5 cm to 4 cm

Test no. 1

Test for Withstanding ability against Petroleum products

Apparatus and Material Requirement

250 ml Beaker – 2 Nos

Petrol- 150 ml

Diesel – 150 ml

Lube Oil – 150 ml

50 grams of Bard roll – 3 Nos

Procedure:

Immerse the three Bard pieces in each beaker containing petrol, diesel and lube oil. After 3 days take out the rolls then dry it and observe for colour change. Weight difference or any other physical change.

Test no. 2

Flame Test to demonstrate the fire suppressing property

Apparatus and Material required:

250 ml Beaker- 2 Nos. or any desired volume

Petrol – 500 ml

Bard Roll weighed – 50 grams

Tongs

Lighter

Procedure:

Take two beakers filled with petrol and fix the Bard roll approximately having the same diameter as that of the beaker in one of them. Introduce the flame on both of them simultaneously. Observe 10 – 20 seconds for the fire intensity difference in both beakers. Take the Bard roll carefully outside using the tongs. Observe the increased fire intensity when the Bard is taken out. Insert the Bard roll back to the beaker carefully for further observation and confirming the quenching property of Bard.

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