

HYG Heat Resisting Rock Wool Products

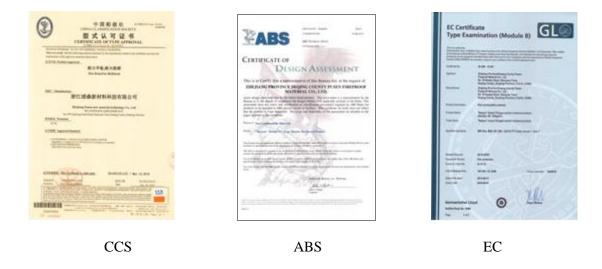
1. Product Introduction



Blocks

HYG Heat Resisting Rock Wool product is made from high quality basalts by melting, spinning into fibers and thermal curing processes. The main Ingredients are Al₂O₃, SiO₂, Fe₂O₃, CaO, MgO etc. It can be coated with glass cloth or aluminum foil fiber cloth according to the requests of clients. It's mainly used as the insulating and fireproof materials at cabin inner surfaces, stiffeners (T steels and ball steels) etc.

HYG type Heat Resisting Rock Wool products have got the certifications of CCS, ABS and EC.





2. Technical Specifications

Table 1 Technical Parameters

| Items | Technical Requirements | | | | |
|--|---|--|--|--|--|
| Incombustibility | Accord with IMO.2010FTPC Part1 requirement | | | | |
| Asbestos test | Accord with Hong Kong International Covention for the Safe and Environmentally Sound Recycling of Ships 2009. | | | | |
| Apparent Density / kg/m ³ | 120 | | | | |
| Moisture Absorption Rate / % | ≤ 5 | | | | |
| Fiber Diameter / um | ≤ 7 | | | | |
| Residue Content / % ($\Phi \ge 0.25 \text{ mm}$) | ≤ 12 | | | | |
| Thermal Conductivity / W/m·K | 25 °C, 0.037~0.040 | | | | |
| Organic Compound Content / % | ≤ 3 | | | | |
| Fire Separation Class | A60 class, accord with the requirements of IMO.2010FTPC Part3. Bulkhead: (40+40) mm, two-layer; 120 kg/m ³ ; Deck: 50 mm, one-layer; 120 kg/m ³ | | | | |

3. Product Specifications

| Scope | Fire separation class | Class | Density/ kg/m ³ | Dimension / mm | | | Coatings | Fixation | Areal Density/ |
|-----------------------|-----------------------------|--------------|-------------------------------|----------------|--------------|------------|----------------|------------|-------------------|
| | | | | Т | W | Т | 00000080 | | kg/m ² |
| | | | | | 800 | 40+40 | | | |
| Stool | | DQ | | | 700 | two-layer; | Glass cloth or | | |
| Steel Bulk head | A60 | DQ-HYG/B-VII | 120 | 600~ 1000 | 600 | 40 mm, | Aluminum | Stud pins | 9.6 |
| | | | | | 500 | one layer | foil glass | Stud pills | 9.0 |
| | | | | | According | on | cloth | | |
| | | | | | to stiffener | stiffener; | | | |

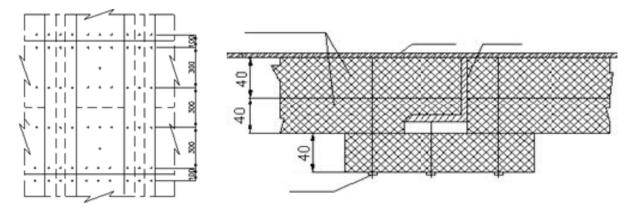
Table 2 HYG Rock Wool Product Specifications



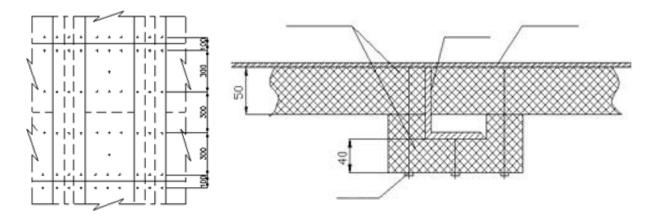
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| Steel Deck | A60 | DQ-HYG/D-VII | 120 | 600~ 1000 | 800 | 50 mm one-layer; 40 mm for stiffener; | Glass cloth or Aluminum foil glass cloth | Stud pins | 6 |
|---------------|-----|--------------|-----|--------------|--------------|--|---|-----------|---|
| | | | | | 700 | | | | |
| | | | | | 600 | | | | |
| | | | | | 500 | | | | |
| | | | | | According | | | | |
| | | | | | to stiffener | | | | |

4. Structures



A60 Bulkhead (DQ-HYG/B-VII) typical Detail of HYG Rock Wool



A60 Deck (DQ-HYG/D-VI) typical Detail of HYG Rock Wool

5. Advantages

HYG Rock Wool has been used in civil ships as A60 class fire-proof material for more than 20 years. It has gotten the certifications of CCS, EC, LR, ABS, and NK. It's of high security, and economical. As A60 class material, it offers enough time to escape from emergencies.