

CIRTEX ROCK BAGS

TECHNICAL DATA SHEET

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MATERIALS

The net bag material is a virgin polyester. It is ideal for hydraulic works as it is rust-proof, non-corrosive, rot proof, and weather resistant. It can withstand exposure to ultraviolet, salt water and fresh water.

The rope is a 3-ply polyester rope. The weave structure is a raschel mesh which prevents the mesh thread from unraveling if there is a break.

The net bag is a double layer of mesh net bags on the 2T and 4T sizes and a quadruple layer of mesh net bags on the 8T supported with lifting and neck tying ropes (wrap ropes).

The net bags are filled with stone or other acceptable material corresponding to the correct size.

Polyester net bag, filled with stone can be installed adjacent to another polyester net bag to achieve desired area coverage. Wood or metal anchors can hold separate polyester net bags together. Can be stacked for multiple layers.

TECHNICAL SPECIFICATION

| ROCK BAG | Mesh (mm) | Recommended Rock Sizes (mm) | Height (meter) | Diameter (meter) | Volume (cubic meter) | Weight (empty with ring) KG | Resistance to currents (no movement) | Resistance to currents M/S (no movement) Grouped |
|----------|-----------|-----------------------------|----------------|------------------|----------------------|-----------------------------|--------------------------------------|--|
| 2 ton | 25 mm | 50 - 200 | 0.4 | 1.9 | 1.13 | 6.0 | 3.2 | 4.7 |
| 4 ton | 25 mm | 50 - 200 | 0.6 | 2.4 | 2.71 | 12.5 | 3.6 | 5.3 |
| 8 ton | 50 mm | 75 - 200 | 0.85 | 3.0 | 6.00 | 39.0 | 4.0 | 5.9 |

KEY POLYESTER NET BAG PERFORMANCE PROPERTIES

| | | | |
|---|--------------|-----------------|--------------------|
| Single Polyester Net Tensile Strength | 24 or 1,675 | kN/m or lb./ft. | ASTM D4595 |
| Single Polyester Net Static Puncture Strength | 1.6 or 359.7 | kN or lbs-Force | ASTM D6241 |
| Single Polyester Net Tearing Strength | 0.9 or 202.3 | kN or lbs-Force | ASTM D2261 |
| Elongation at Maximum Load | 30 | Percent | ASTM D4595 |
| Mass/unit area | 325 | grams/m2 | ASTM 2261 |
| Iron Ring Tensile Strength | >5.5 | Metric Ton | Lab & Factory Test |
| Loaded hold test (2T/4T/8T) | 15 | Minutes | Factory Test |
| Estimate useful life | 30 | Years | Material supplier |

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