



Sagar Enterprises



A Trusted Company for Mines Safety Technology
ISO 9001-2015



Company Profile

We at **SAGAR ENTERPRISES** is one of the leading company in the feild of manufacturing & supply of Resin Capsule, Cement Capsule, Power Cable, Short Firing cable, W-strap, Roof Bolt, Steel Cog etc. conforming to National standards, Sagar Enterprises is a regular supplier of Various government, Public, private sector. Our prestigious clients are M/s. Coal India Ltd, & its subsidiaries, The singareni collieries co. Ltd., TATA Group Jamadoba Dhanbad, Hindalgo Raigarh, Monnet Ispath Ltd, Jayaswal Neco, Birla Group etc. And our Products are giving satisfactory performance.

Sagar Enterprises is an ISO-9001-2015 Certified Company having a quality system for manufacturing and supplying of wide range of equipments to meet each & every demand of industries. All our equipments/capsules are approved from CIMFR Dhanbad and National test house, Kolkata having BIS Certified and symbol of quality products.

Taking this consideration of past performance and newly created infrastructure and updated manufacturing facilities to increase the capacity and inbuilt for the opportunity of expansion by installing semi automotised machines



Engineering Data

Gel time and cure time

Gel time of a resin is the time interval required to change the resin from a viscous liquid to a gel. Capsule gel time is a parameter determined in the laboratory under standard conditions at 20°C and can be used to categorise resin reactivity. The temperature under ground will influence the gel time of resin products. Warmer conditions will shorten gel times, whilst lower temperatures will retard or slow gelation.

Cure time (operational time) of the resingrouts, formed by mixing the resin and filler composition with the catalyst, follows shortly after the gel time and is the time required for the grout to harden sufficiently to become load bearing. The bolt should not be disturbed or loaded during this phase. At the given temperature, operational time may be influenced by the degree of mixing in the capsule components which in turn is related to the diametric difference between bar and hole and speed of bolt rotation.

Mechanical Strength

Capsules are remarkable for their high mechanical strength. Pull out tests made using standard capsules usually result in bar failure. Compressive strength to BS 7861: Part 1 for Resin Capsules HS is greater than 80 Mpa and punch shear to BS 6319 is greater than 25 MPa for the 3 minute set capsule.

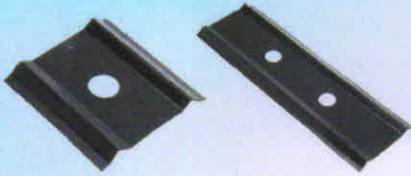
Storage Procedures

Resin capsules' should be stored in a cool, well ventilated and dry area, away, from direct sunlight above freezing but below 25°C. Resin capsules must not be used if they are in a frozen condition as this will severely reduce their performance. It is recommended that Resin capsules should be stored under ground for a minimum of 5 days before they are used so as to ensure that they are at the correct operating temperature.





Proto type : Steel Square cog size : 900 mm x 900 mm x 1200 mm, Capacity 50 ton, Corrosion resistance for 30 days, 1.24%, weatherability test for 30 days (pH>4) weight loss in % by mass 0.74%.



Manufacture W-Strap as per the standards of IS-2062:2006, Yield strength 420.11 Mpa, Tensile strength 458.30 Mpa, Elongation 31.70%



Slow set Compressive strength to as per DGMS Standards : for Resin is greater than 30 Mpa after 30 Min 80 Mpa After 1 Hrs and punch shear to Bs6319 is greater than 25MPa for the 3 minute set capsule.



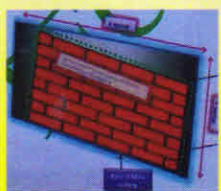
Manufactured under IS Standards



We manufacture short fire cable under IS 5950:1984, Twin cable x 1.00 mm² (7/0.43 mm) Annealed bare copper conductor (Class 2) Pvc insulated (Type A) cable conforming to IS 5950:1984



Our Cables are manufactured under BIS 694-1990 and BIS 1554 (Part 1) 1998, and we are customized Supplier as per to the customer need.



We Construct Ventilation stops in the underground mine as per to the DGMS Standards, already proven in the mines of SECL Hasdeo area, It is completed mechanised and green technology this is very quick & Eco-Friendly technique with the help of modern technology we can make more than 10 ventilation stops every



Cement capsules are manufactured under DGMS Regulations and standards as per the parameters mention under circular No. 5, Dated : 19-07-2013. as this capsules should be soaked in water & used for grouting the bolts in underground mines & tunnels.

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