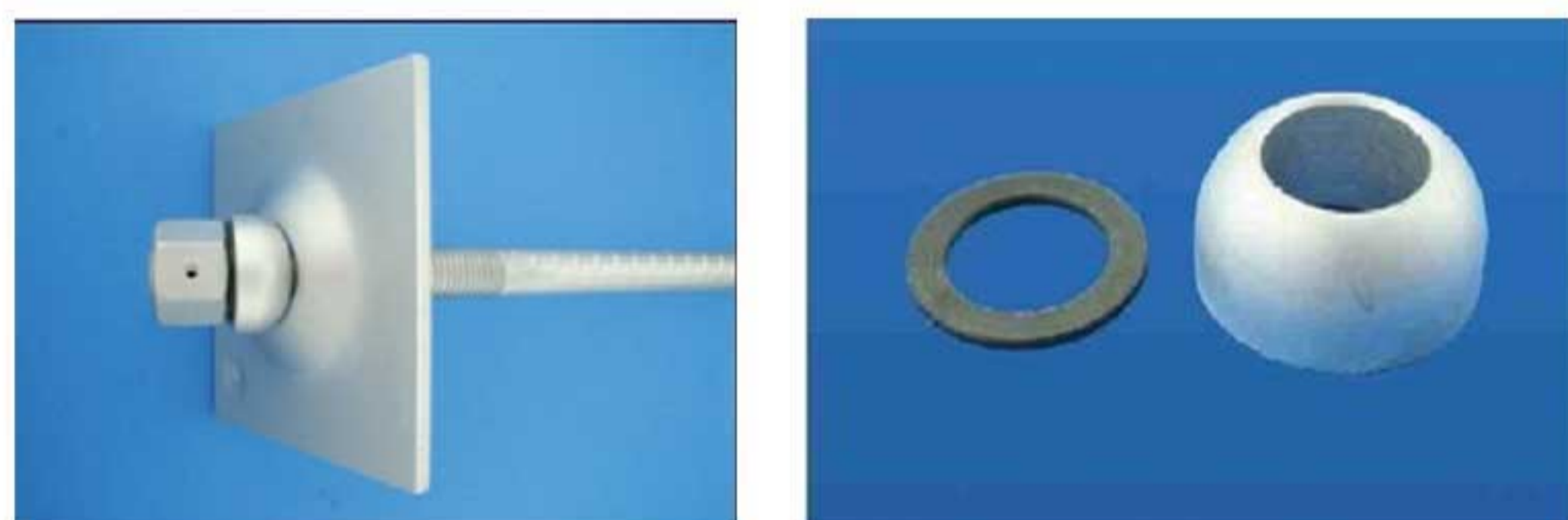


Resin Bolt for roof and ribs support in mine working areas



Resin Bolts are designed to be used for roof and ribs support in mine working areas as an independent or additional roof support system. They are also used for the attachment of various components of mining equipment.



Technical description:

- IsoBolt is modern design anchors with load capacity of up to 300 kN and a nut locking system (shear-pin).
- anchor rod is made from a reinforcing bar of 22 mm.

Tensile Test

Diameter (mm)	Initial Area (mm ²)	Y.S (N/mm ²)	U.T.S (N/mm ²)	Elongation (%)
22	380.51	640	800	18

According to results, tensile properties of sample satisfied the requirements of GOST 5781 (1982) Class AIII (A400) Standard.

- M24 nut is connected with the rod by means of a "SPIROL" 3 or 6 pin.
- Spherical washer makes it possible to fix the anchor at 18° angle.

Installation procedure:

Put resin cartridges in the drill hole. Insert the anchor and rotate while pushing causing the resin to mix. During mixing, the nut does not turn as it is joined with the rod by means of a 3 or 6 pin. Once the resin has set, the pin is sheared by turning the nut. Apply torque of at least 250 Nm to screw on the M24 nut in order to tension the anchor to the desired prestress (initial tension) of minimum 30 kN.

Technical Data

Steel Type	APB 770
Rod diameter	22 mm
Thread Size	M 24
Thread Length	150 mm
Torque shearing the 6 Spirol pin	120 – 160 (Nm)
Anchor capacity required by documentation	APB – min 260 kN
Effective anchor capacity	APB – 300 kN
Prof Height	1.35 mm
Prof Top Width	2.50 mm
Prof Bottom Width	5.00 mm
Prof Angle	22.50