

**MINING**

# Friction pipe bolt

**TYPE KRSZ-C-Ø39**

*Certificate of Conformity issued by "INOVA" Technical Innovation Centre Ltd.  
No. 67/4/2017*

**DESCRIPTION**

The bolt rod is made from a section of  $\varnothing 39$  mm in diameter and 3 mm thick. The cross-section of the rod resembles a cylinder whose edges overlap forming a tube.

The upper part of the rod is bevelled and appropriately formed while the bottom part has a reinforcing sleeve and a hole for fitting the attachment unit.

When set in the hole, the bolt is given the required load capacity due to elastic rod structure.

**APPLICATION AND USE**

Friction pipe bolts KRSz-C- $\varnothing 39$  are designed for roof and ribs support in mine working areas as an independent or secondary bolting roof support system. They are also used for the attachment of various components of mining equipment.

**ADVANTAGES**

- Easy installation system that guarantees immediate achievement of anchor bolting capacity parameters
- Ability to transfer loads resulting from bursts and tectonic movements



**TECHNICAL DATA**

**BOLT DATA**

Parameter	Value
Outside rod diameter	$\varnothing 39$ mm
Rod length	From 1600 to 2600 mm
Bolt capacity required by regulations	min 80 kN
Useful load	100 kN

The bolts can be used with square washers of 150 x 150 mm or round Ø137 mm washers made of 6 mm plate.

3 x 100 x 100 square domed washer and M12 thread are supplementary elements used for the attachment of various elements of mining equipment.

## APPLICATION METHOD

Drill a hole of  $\varnothing 38 +0,5$  mm in diameter and length equal to the length of the bolt.

Preassemble the anchor by placing the washer on the rod.

Prepare the bolt for installation by inserting the beveled end into the borehole and the sleeve in the socket of the percussion machine with impact energy of  $200 \div 250$  J. The bolt should be hammered in till the washer rests against the rock surface.

## PACKAGING AND TRANSPORTATION

As a standard practice, anchor poles are packed in bundles of 100pcs and plates are stapled with 10pcs of wire.

Other packaging options available on request.

## APPROVALS AND CERTIFICATES

- KRSz-C-Ø39 tubular friction bolt has Certificate of Conformity No. 67/4/2017 issued by "INOVA" Technical Innovation Centre Ltd. in Lubin.

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