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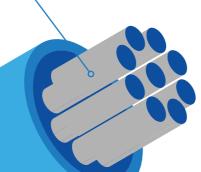
EEC Sp. z o.o. is a company specializing in the development and manufacture of innovative composite products used in industry. Since 2012, we have been implementing projects within the framework of broadly defined composite technologies, constantly developing our own innovations using glass, basalt and carbon fibres. The company relies on its own "know-how", and the industrial designs we have developed are subject to patent applications. The main profile of the company's business is the production of the patented MiMesh® composite meshes, which protect ceilings and side walls in mining plants. The name EEC comes from Eastern Europe Composites.

Composite

a material consisting of at least two components with different properties

Fibre

- structural component (strength), ensures tensile resilience and rigidity.



Matrix

- saturates and coats the fibre bundle creating lasting protection against mechanical damage and stress. It can also give extra resilience.

Composite MiMesh®

MiMesh® OKK75 composite meshes made based on glass fibres in a nonflammable antistatic polymer matrix, are used to protect ceilings and side walls in underground excavations of metal ore mining plants, coal mines, salt mines and mines of mineral raw materials or other minerals.

MiMesh® acts as a protective lining in an independent anchor housing, protecting against falling rock fragments. It can also be used as a repair kit for corroded steel covers.

MiMesh®isamodernprotectionforpeopleand equipment. It is particularly recommended for permanent workplaces such as mining chambers, electrical switchboards, heavy machinery and pump chambers.

The use of MiMesh® makes it possible to create ceiling and side wall lagging in a simple way, creating a continuous protective surface. The interconnection of successive rows of the mesh, with a minimum overlap of 150mm, makes it possible to achieve a uniform and consistent protective surface, without the possibility of lateral sliding of individual rows of the mesh.



MiMesh® can be fixed using both steel and plastic anchors, while with the latter, the whole casing remains completely workable and need not be dismantled when widening the excavation.

The MiMesh® sheets are rigid and resilient, which makes them flexibly fit into the rock mass. Unlike other polymer meshes, they are not flimsy, so they do not fall by gravity during installation. It should be added that they are 3 times lighter than their steel counterparts. All this combined, results in significantly higher installation efficiency.

More importantly, MiMesh® is resistant to corrosion and chemicals and therefore it can be used even in the most aggressive environments. Unlike steel meshes, it does not require periodic replacement, which translates into a significant reduction in maintenance costs.

MiMesh® is intended for use in underground excavations of mining plants, in excavations classified as class "a", "b" or "c" of methane explosion hazard and class A or B of coal dust explosion hazard.

Advantages of composite MiMesh®



Cost-effectiveness

- due to the low cost of maintenance, transport and assembly



Corrosion resistance

- 100 % resistant to corrosion, completely resistant to contact with water



Resistance to chemical agents,

both acidic and alkaline



Fast installation

- significantly improves installation time and cost



Shape

Memory

- resistant

to permanent

deformations

Flexibility

- flexibly adjusts to uneven wall and ceiling surfaces



Low weight

- results in lower transport and assembly costs. Its weight is three times lower than of its steel equivalent



Durability

- excellent strength parameters, meeting the standards for steel products



No radio interference

- does not interfere with the communication of transmitters and receivers on site



Certificates

- product approved for use in underground mines



Non-combustible and antistatic product

...do you know

2km of glass fibre is used?

one OKK75 GS1 MiMesh® almost

that to produce

- does not accumulate electric charge



Environmental friendliness

- the product is organic, non-toxic, easy to dispose, compliant with European standards in terms of



Workability

- fully workable by standard mining methods



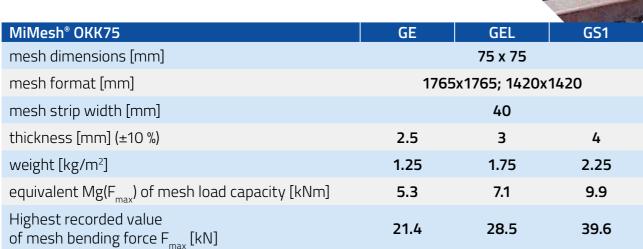
Longevity

- is not degraded for up to 100 years, making expensive repairs unnecessary



environmental protection

Technical parameters



Colour:	white, uniform
Strength parameters:	according to PN-G-15050:2018-01
Surface resistance:	antistatic mesh - in accordance with the requirements of the standard PN-EN ISO 80079-36:2016-07
Flammability:	flame retardant mesh - in accordance with the requirements of the standards PN-EN ISO 340:2013-07 point 5.7 excluding points 5.7.5 and 5.7.6
Toxicity and harmfulness assessment:	Fibreglass mining mesh does not pose a threat to the health and the lives of employees

The mesh format should be adapted to the anchoring spacing. Suggested mesh format for sample anchoring spacings

mesh format [mm]	anchor spacing [mm]
1420 × 1420	1200 × 1200
1765 × 1765	1500 × 1500

MANUFACTURED IN POLAND ACCORDING TO EU STANDARDS





Composite vs. steel mesh

Mesh Steel of fibreglass mesh Corrosion resistance X Low weight X Easy to transport X Resistance to aggressive X chemical environment High strength Flexible fit X to surfaces Resistance to permanent X deformations Low conductance X thermal conductivity Easy to cut X Workable X Permanent colouring X

References, certificates, patents

The products of the company have been tested and implemented in all KGHM copper ore mines, in the coal mines of LW Bogdanka, Tauron Wydobycie and tourist mines such as the "Wieliczka" Salt Mine and Guido Historic Coal Mine. Our products are also successfully applied in Swedish iron ore mines.

EEC products have all required approvals for use in underground mining operations.

They are protected by patent rights.













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