



Stainless steel fibers

# Brief introduction of our company

- ▶ We are Czech company and also our production and business areas are all located in Czech.
- ▶ We produce steel fibers for more than 20 years, so we have plenty of experiences.
- ▶ For the production we use only first class quality wire from Switzerland and France.
- ▶ We are a family company so the communications with us is fast and simple, but because of our main customer (Japanese group supplying almost all Japanese car brands) we produce big volumes of steel fibers so we can offer great price.

# Brief introduction of our product

- ▶ Our company is focused in production of stainless steel fibers (“steel wool”).
- ▶ Our fibers are mainly used for reduction of noise in mufflers in exhaust systems for combustion engines.
- ▶ Stainless steel fibers is an alternative for glass or basalt fibers which is more often in muffler because of price. But of course glass and basalt fibers have their limits.
- ▶ Basalt and glass fibers in muffler can be broke by the vibrations of the pipe and melted due to high temperature of some exhaust gas.
- ▶ This is also the reason why steel fibers are mainly used in combination with glass or basalt fibers as a first layer. So you will avoid breaking and still can use mostly the cheaper fibers for other layers.
- ▶ Steel have also higher heat resistance then glass or basal, so especially for car where are high temperatures of exhaust gas have to be use steel fibers.
- ▶ We are able to deliver the stainless steel fibers in many forms, like strands, rovings, needle felts, pads, etc.

# Brief introduction of our product

- ▶ Steel fibers are mainly produced from two types of stainless steel, i.e. 1.4113 (X6CrMo17-1) and 1.4841 (X15CrNiSi25-20).
- ▶ The manufacturing of steel fibers is executed on tearing machines, with the fibers density (weight per one running meter) and grossness depend on the customer requirements.
- ▶ As a world unique feature we can consider the electronic inspection of the fiber density, resulting in full control over this parameter that is normally very difficult to control. This leads to elimination of risk of irregular fiber density.
- ▶ For the production we use only first class quality wire from Switzerland and France.
- ▶ Because of this kind of measuring, first class quality materials and our 20-year tradition in manufacturing, we are able to deliver the top-quality fiber to the worldwide markets.

# Attributes of material used for fibre production

- ▶ anticorrosive
- ▶ acid-proof
- ▶ heat-resisting

# Standard products

- ▶ steel wool in rolls of various density and grossness
- ▶ unwoven steel wool felt
- ▶ cut shapes of unwoven felt
- ▶ pipe creeling with/without reinforcement



# Transport

- ▶ Transport within EU countries is ensured using our own vehicles. This leads to keeping the top quality of our products during transport to customers.
- ▶ For overseas transport we use forwarding containers.
- ▶ The aim of the company is to deliver a top-quality fiber just according to the customer requirements.
- ▶ Therefore our company fulfils all requirements on the quality management according to the standard ISO 9001:2008.

# ISO

- ▶ On September 15th, 2003 the company was certified according to the standard EN ISO 9001:2000 by the registration company Moody International s.r.o. In the year 2009 we successfully implemented re-audit process according to ISO 9001:2008 by the registration company Intertek Certification GmbH. Currently we are holders of certification DIN EN ISO 9001:2015. Certification of our company confirms the upcoming trend to maximal satisfaction of the customer needs and requirements.

**IAF**  
MEMBER OF MULTILATERAL  
REGISTRATION AGREEMENT

**AB**  
S 3227

**CERTIFICATE**

The Certification body of the management systems No.: 3227  
accredited by Český institut pro akreditaci, o.p.s. in accordance to ČSN EN ISO/IEC 17021-1:2016

**QES Cert s.r.o.**  
declares that

**PRO TENAX s.r.o.**  
Plzeňská 35, 252 19 Chrášťany  
Czech republic  
ID: 643 57 465  
Establishment: Trocnovská 1982, 356 01 Sokolov

has established and applies  
the quality management system for this scope of business:

**International road haulage, purchase and sale  
of steel fibers and fasteners systems.**

According to the certification audit results has been confirmed  
that following standard requirements are met

**ISO 9001:2015**

Expiration of certification until **05. 01. 2025**  
Date of decision about certification **25. 10. 2021**  
Date of issue of the certificate **25. 10. 2021**  
Date of initial certification **06. 01. 2016**  
Certificate registration No.: **18084/Q/02**

**QESCERT**

**QESCERT**  
ORGÁN AKREDITOVANÝ  
ČSN EN ISO/IEC 17021-1:2016  
3227

**Pehi**  
Ing. Aneta Petřů  
Certification manager

QES Cert s.r.o. • Jablonecká 322/72 • 190 00 Praha 9 • Česká republika • info@qes-cert.cz • www.qes-cert.cz



# Where you can find us.

- ▶ We are situated in western of Czech republic near to German border.
- ▶ Our production is located at Bukovanská 817, 357 09 Habartov, Karlovy Vary region, Czech republic.
- ▶ Our offices are at Trocnovská 1983, Sokolov, Karlovy Vary region, Czech republic.
- ▶ Both our business places are close to each other. By car is around 10 minute.



- ▶ Pls contact our local partners.
- ▶ Or you can contact us directly on email [jiri.stariat@protenax.cz](mailto:jiri.stariat@protenax.cz), or cell phone +420 777 929 352.