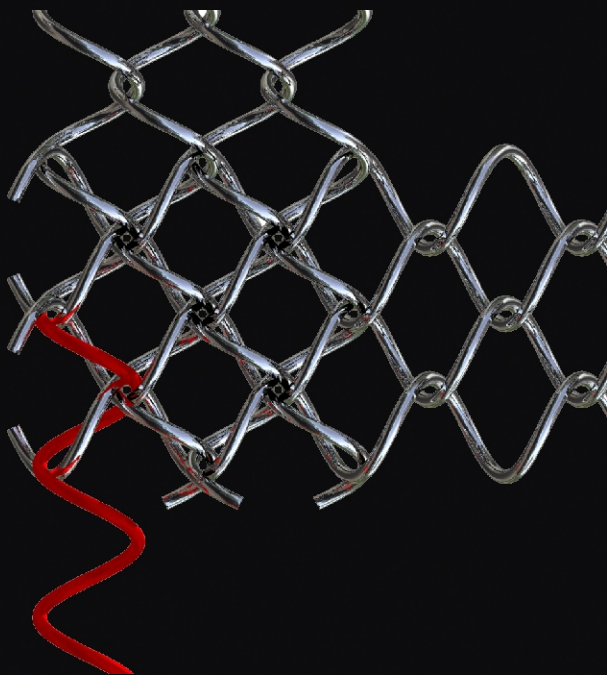
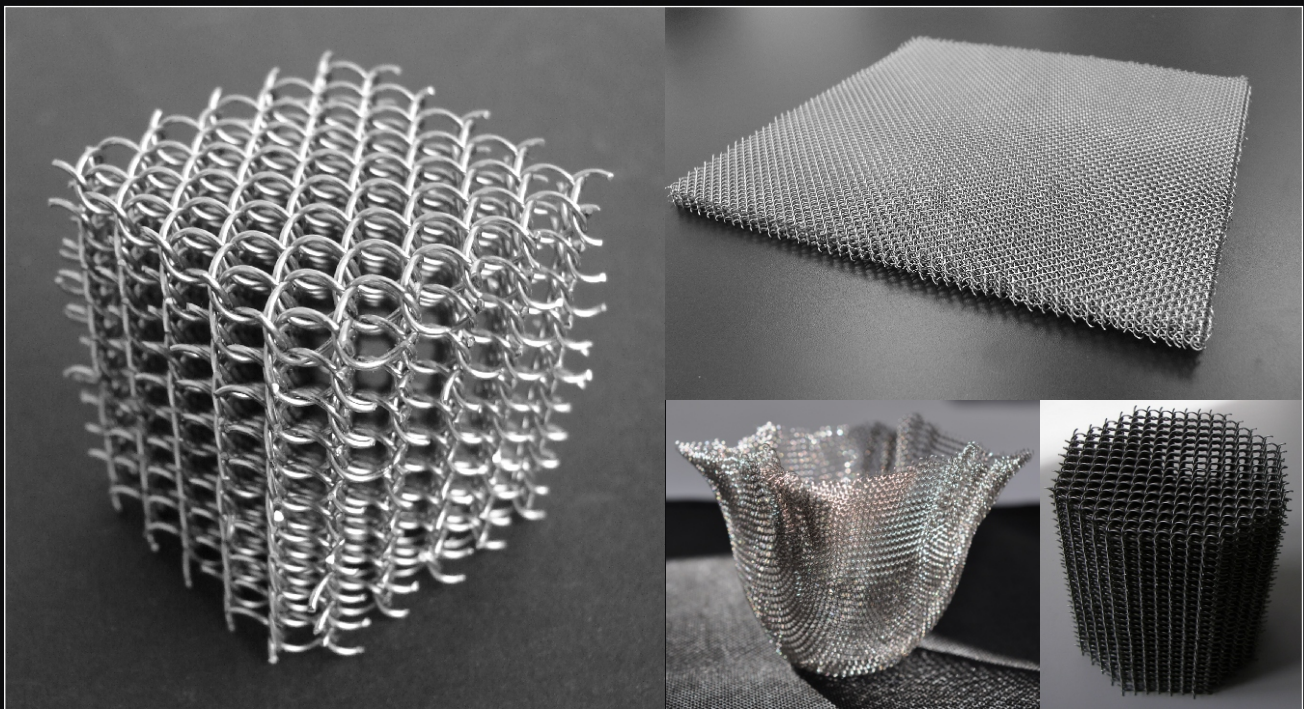




strucwire®



Wire material

**Steel / Aluminium / Copper /
Titanium / Magnesium**

Potential of application

strucwire® can be used for different application such as in lightweight construction, as sandwich element, in hybride-lightweightstructures. The range of application comprises automotive industry, medical technology, machine engineering as well as applications in the chemical-biological process engineering.

Special characteristics of this new material

High energy absorption

Good damping behaviour

Low specific weight

Large specific surface

High temperature resistance

Defined cell structure (FEM-simulation), homogeneous, anisotropic characteristics

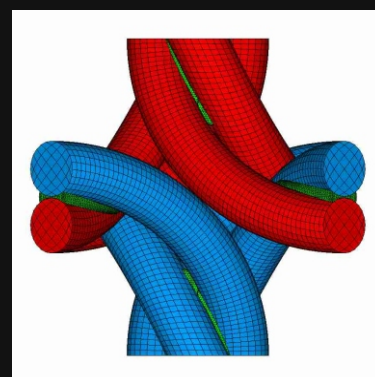
Optimised product parameters by right choice of wire quality, modification of the surface (e.g. coating) or hybride construction

Further variability of the mechanical characteristics by fixation of the joint connections

Recyclable

Technical data

Dimensions:	panel - 500 x 500 mm cube - 300 x 300 x 300 mm other shapes possible
Cell sizes:	2,7 bis 18 mm



Selected specific values

Density:	0,65 - 1,45 g/cm ³
Stiffness:	85 - 4850 MPa
1%-elastic limit:	0,9 - 14,5 MPa
Max. yield stress:	2,7 - 63,8 MPa
Specific energy absorption (60% strain):	1,85 - 50 J/cm ³

For specific applications further specifications, shapes, dimensions an so on are available on request.

Please contact us!

Die veröffentlichten Ergebnisse entstanden innerhalb des im Rahmen des Europäischen Fonds für regionale Entwicklung (EFRE) und mit Mitteln des Freistaates Sachsen geförderten Projektes "3d-Drahlstrukturen". Die Verantwortung liegt bei den Autoren.

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