

## Technical data sheet

### Steel fibers with hooked ends

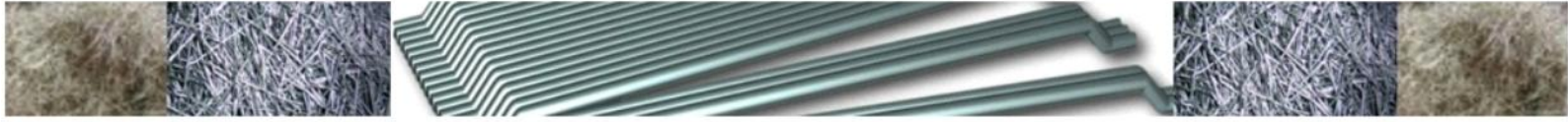


Steel fibers with hooked ends are filaments of steel wire for reinforcement of concrete and mortar. For manufacturing wire fibers are using wires of different diameters deformed and cut to lengths.

Steel fibers reinforcement is widely used as the main and unique reinforcing for industrial concrete floor slabs, shotcrete, prefabricated concrete products, slabs on piles, tunnel segments, concrete cellars, foundation slabs, and shear reinforcement in prestressed elements.

Steel fibers improve the mechanical properties concrete and materials such as ductility, durability, energy absorption, fatigue, and toughness. This fiber helps to controls plastic shrinkage cracking in concrete; helps reduce or eliminate need for conventional reinforcement.

Designation	Length (mm)	Diameter (mm)	Aspect ratio L/d	Cross section	Tensile strength of drawn wire
ZS/N 0.50x30	30 ±10%	0.50±10%	60	round	1100-2700 N/mm <sup>2</sup>
ZS/N 0.55x30	30±10%	0.55±10%	54.5	round	1100-2700 N/mm <sup>2</sup>
ZS/N 0.60x30	30±10%	0.60±10%	50	round	1100-2700 N/mm <sup>2</sup>
ZS/N 0.70x30	30±10%	0.70±10%	42.8	round	1100-2700 N/mm <sup>2</sup>
ZS/N 0.75x30	30±10%	0.75±10%	40	round	1100-2700 N/mm <sup>2</sup>
ZS/N 0.80x30	30±10%	0.80±10%	37.5	round	1100-2700 N/mm <sup>2</sup>
ZS/N 0.50x35	35±10%	0.50±10%	70	round	1100-2700 N/mm <sup>2</sup>
ZS/N 0.55x35	35±10%	0.55±10%	63.6	round	1100-2700 N/mm <sup>2</sup>
ZS/N 0.50x40	40±10%	0.50±10%	80	round	1100-2700 N/mm <sup>2</sup>
ZS/N 0.55x40	40±10%	0.55±10%	72.7	round	1100-2700 N/mm <sup>2</sup>
ZS/N 0.75x50	50±10%	0.75±10%	66.6	round	1100-2700 N/mm <sup>2</sup>
ZS/N 0.80x50	50±10%	0.80±10%	62.5	round	1100-2700 N/mm <sup>2</sup>
ZS/N 0.90x50	50±10%	0.90±10%	55.5	round	1100-2700 N/mm <sup>2</sup>
ZS/N 1.05x50	50±10%	1.05±10%	47.6	round	1100-2700 N/mm <sup>2</sup>
ZS/N 1.20x50	50±10%	1.20±10%	41.6	round	1100-2700 N/mm <sup>2</sup>
ZS/N 0.70x60	60±10%	0.70±10%	85.7	round	1100-2700 N/mm <sup>2</sup>
ZS/N 0.75x60	60±10%	0.75±10%	80	round	1100-2700 N/mm <sup>2</sup>
ZS/N 0.80x60	60±10%	0.80±10%	75	round	1100-2700 N/mm <sup>2</sup>
ZS/N 0.90x60	60±10%	0.90±10%	66.6	round	1100-2700 N/mm <sup>2</sup>
ZS/N 1.05x60	60±10%	1.05±10%	57.1	round	1100-2700 N/mm <sup>2</sup>



### **PACKING AND STORAGE**

Steel fibers with hooked ends are available in paper sacks of 20 kg. At the requests of customers we pack in cardboard boxes. Pallet weight 1000 kg. Palettes are wrapped in PVC foil. Do not stack pallets on top of each other.

Steel fibers conforming to EN 14889-1:2006, according by **TÜV** 1301 – CPD - 0662

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