

UGIFIL Tie-Wire
for vineyard

UGITECH

Providing special steel solutions



A wire that lasts, doesn't stretch out of shape, and practically eliminates maintenance.

Solid stainless steel tie-wire

	UGIFIL	Galvanized wire
Breaking loads	Over 135 kg/mm ²	Roughly 45 kg/mm ²
Elongation	Less than 3%	Roughly 13%

UGIFIL packaging

UGIFIL	Spool lengths	Weight
Ø 1.20 mm	1500 m	13.35 kg
Ø 1.40 mm	1100 m	13.30 kg
Ø 1.60 mm	800 m	12.65 kg
Ø 2.00 mm	600 m	14.85 kg

Packaging for other UGIFIL tie-wires

UGIFIL	Ø	Weight	Length
Anchoring wire	3 mm (annealed)	25 kg	450 m
Arboriculture	2.5 mm	25 kg	650 m
Arboriculture	3 mm	35 kg	630 m
Agrifil (spools)	1.2 mm (annealed)	4,5 kg	500 m

Effective diameter equivalence

UGIFIL	Galvanized
Ø 1.20 mm	Gauge 14 (Ø 2.2 mm)
Ø 1.40 mm	Gauge 15 (Ø 2.4 mm)
Ø 1.60 mm	Gauge 16 (Ø 2.7 mm)
	Gauge 17 (Ø 3.0 mm)
Ø 2.00 mm	Gauge 18 (Ø 3.4 mm)
	Gauge 19 (Ø 3.9 mm)

UGIFIL vs. Galvanized comparison

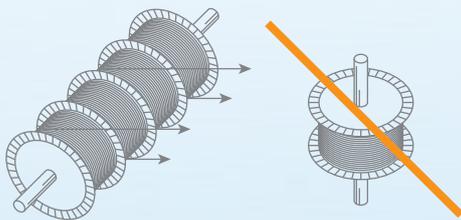
UGIFIL				Galvanized		
Diameter	Spool length	Length m/kg	Total load	Gauge	Length m/kg	Total load
1.20	1500 m	112 m	150 kg	13	40 m	120/140 kg
			170 kg	14	30 m	150/170 kg
1.40	1100 m	83 m	210 kg	15	28 m	180/200 kg
			230 kg			
1.60	800 m	63 m	270 kg	16	22 m	230/257 kg
			300 kg	17	18 m	280/320 kg
2.00	600 m	40 m	420 kg	18	14 m	360/400 kg
			470 kg	19	11 m	475/540 kg
2.50	650 m	26 m	712 kg	20	8.4 m	610/690 kg
3.00	630 m	18 m	1024 kg	22	5.6 m	916/1030 kg

Some installation tips for Ugifil stainless steel wire.

1/ Wire installation

Spools can be unwound without special equipment. The spool, simply slid onto a pin of a size close to that of the central hole, will however be braked slightly to prevent the released turns from paying out too fast.

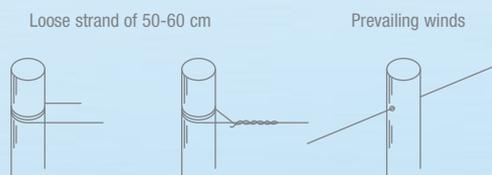
Several spools can be unwound at the same time (2, 3, 4 or even 5 spools). The braking can be done very simply by placing the spools next to each other; in this case, arrange so that spools unwind alternately from top then from bottom. In this way each spool unwinds in the opposite direction.



2/ Anchoring to posts

Wind the wire **2 or 3 times** around the post, leaving an extra length of 50 to 60 mm. Twist the extra length several times around the taut wire (4 to 5 times) then double back towards the post, twisting it again 4 to 5 times.

Warning: Do not make small, tight twists, but keep the twists tight and wide apart.



3/ End-to-end connection

When 2 wires are to be joined, make a loop at one end taking care to twist in the same direction as when anchoring to the head post. Place the other wire in the loop and twist it the same way.

For the end-to-end connection of a wire that has been cut accidentally, it is usually necessary to add an extra length. Then use a tension adjuster to restore tension to the wire.



Tie-Wire for vineyard... Choose the right equipment

Corrosion resistance table

		ALU	CHROMIUM STAINLESS STEEL	UGIFIL
ACIDS	pure acetic	Excellent	Poor	Excellent
	critical	Average	Good	Excellent
	formic	Poor	Poor	Excellent
	oxalic	Poor	Good	Excellent
	phosphoric	Poor	Poor	Average
	picric	Good	Average	Excellent
	tartaric	Average	Good	Excellent
	hydrochloric	Poor	Poor	Poor
	hydrofluoric	Poor	Poor	Poor
	nitric	Excellent	Good	Average
	sulfuric <10%	Poor	Poor	Average
	sulfurous	Poor	Poor	Excellent
	SULFATES	ammonium	Average	Average
copper		Poor	Excellent	Excellent
iron		Average	Excellent	Excellent
magnesium		Average	Excellent	Excellent
sodium		Excellent	Excellent	Excellent
zinc		Average	Good	Excellent
	Pure water	Excellent	Excellent	Excellent
	Salt water	Average	Good	Average
	Sodium chloride	Average	Good	Average
	Milk	Excellent	Average	Excellent
	Sodium hypochlorite	Poor	Poor	Average
	Trichlorethylene	Excellent	Excellent	Excellent
	Alcohol	Average	Excellent	Excellent
	Wine	Good	Good	Excellent

Excellent	Excellent
Good	Average
Average	Good
Poor	Poor

Only hydrochloric acid and hydrofluoric acid, not contained in the composition of products used in vineyards, are harmful to UGIFIL.

Using a stainless steel tie-wire does not necessarily guarantee a long or maintenance-free lifetime. Only UGIFIL wire which is made with a strictly defined, constant manufacturing process can guarantee you long term quality and security of use.

