



defalin
GROUP SA

defalin zwiąże najpewniej



AGRICULTURE TWINES



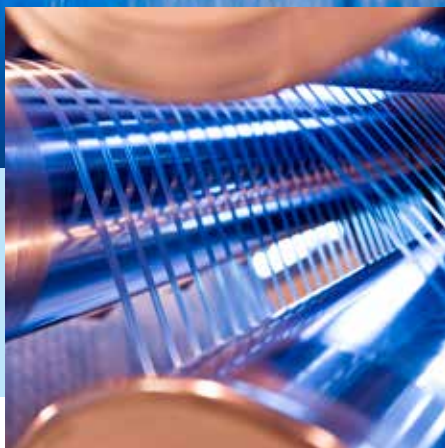
GARDENING TWINES



TECHNICAL TWINES AND ROPES



Defalin Group S.A.



Defalin. Almost 100
years of history,
tradition and all
growing experience.

The long time, devoted to changes
and steady progress so that today
we can proudly say .

The idea that lays behind our every-
day activity is permanently oriented
on satisfying needs of our custo-
mers to the highest possible extent.
Since our target is to manufactu-
re products of the best quality, we
constantly invest in modernization
of our machines which allows us to
apply technologies of the highest
world standards.

Long years of experience, con-
sistently modernised technologies
of production and high quality of
the products manufactured by us
allow Defalin to keep the leading
position in the branch of agriculture
and strapping industry. The DEFA-
LIN brand is well known to Polish
farmers who use our agriculture
twines such as Heros, Goliat, Tytan,

*defalin binds
the best*



Atlas or Gigant which effectively facilitate harvesting crops and grass

Polypropylene tapes were first made by Defalin as a kind of pioneering product on the Polish market, and since 1995 our company have occupied leading position on the market of strapping tapes. Our offer of widely varied assortment of these tapes supports increase of sale every consecutive year.

Basing only and solely on the leading production technologies, Defalin Group S.A. can offer products of exceptionally high quality which successfully compete with those offered by the well known world companies on the international markets. Defalin's products have been pre-

sent on the markets abroad since many years. We export our goods to nearly all countries of the European Union, Eastern Europe, Middle East and North America. One of our big advantages is that we are able to meet variable specific requirements of our clients, so that our products can be best adjusted to their particular local conditions.

Defalin Group S.A. carry out intensive activities aiming at the effective marketing communication. Our promotion campaigns are directed promptly to the consumers as well as to our business partners. Every half a year we supplement the catalogues of our products and we strongly invest in electronic media along with participation in fairs and

exhibitions on domestic and foreign market at home and abroad.

The effective strategy of leading manufacturer on the Polish market and well founded position on the European markets we can accomplish basing on our very professional and deeply engaged team, where long experience of the longtime specialists meet with enthusiasm of the younger ones.

Agriculture twines

- **for the round balers and square balers**
- **for the big - square balers**
- **for the High Density Press**

Polypropylene agriculture twine is the leading product of Defalin.

Results of the standard practical tests have confirmed that in comparison with other products of this kind, our twines are marked by:

- the highest quality raw materials exclusively used for the production,
- higher tenacity to breakage,
- guaranteed (computer-measured) weight and length,
- 100% binding reliability,
- re-winding of the twine up to the very end of package,
- knot-less packages,
- necessary coarseness of the twine, essential for proper knot binding,
- UV resistance*.

The above listed properties result from long-standing experience, use of modern technologies and keeping up to high level of technological and quality regime.

The products of Defalin widely enjoy good reputation both at domestic market and abroad (European Union, Eastern Europe and American continent). DEFALIN'S brand has become a synonym of the best quality in the market of polypropylene agriculture twines.

The polypropylene agriculture twines are being used in agriculture business as disposable products.

They serve for binding or wrapping up straw, hay and grass with application of suitable machines or devices according to needs. All the twines are characterized by specific technical parameters so that they can be adjusted to various types of such the machines.

*Contents of stabilizer are adjusted to particular UV radiation.

Agriculture twines

for the round balers and square balers

Round balers

HEROS

This twine is perfectly suitable for use in binders and in the low crush degree balers. Alternatively, it is used in balers which roll-up straw or hay. The degree of crush stress as obtained in ready product allow for using the finest of twines of low resistance to breakage.

*Product marked with UV i.e. containing the UV stabilizer additive (the agent protecting twines against the ultraviolet radiation) is also very popular in gardening: for example, for tying up tomato and cucumber plants, shrubs etc.

Number of meters per kg (m/kg):	1000
Breaking strength (kG):	40,0
Knot strength (kG):	22,0
Spool weight (kg):	2,0
Number of meters per spool (m):	2000
Number of meters per package (m):	4000

Round balers

HEROS Jumbo

It is made by joining two twines of HEROS standard type in one ball. Such the solution will twice increase productivity of twine, therefore purchase value of the twine will get twice decreased. Also, the time needed for exchanging the balls gets shortened which results in more effective and economical use of baling machine

Number of meters per kg (m/kg)	1000
Breaking strength (kG):	40,0
Knot strength (kG):	22,0
Spool weight (kg):	4,0
Number of meters per spool (m):	4000
Number of meters per package (m):	8000

for the round balers and square balers

Round balers **GOLIAT**



Round balers **ROLLER**



Round balers and square balers **JUBILAT TWINES**

Round balers and square balers JUBILAT TWINES JUBILAT twines are a group of products manufactured to celebrate 100-year anniversary of Defalin. Their superb properties and wide popularity amongst customers have located them in the range of most popular products of Defalin.

This twine is perfect for use in rolling-up balers with low crush degree, for instance in harvest of hay and green fodder aimed for preparation of hay-silage. Since the polypropylene twines do not react chemically with the sour-turned materials, they are ideal for use in the fermentation process technology, while keeping the bales securely compact.

*GOLIAT containing the UV stabilizer additive can also be used on hop plantations

Number of meters per kg (m/kg):	700
Breaking strength (kG):	56,0
Knot strength (kG):	31,0
Spool weight (kg):	4,8
Number of meters per spool (m):	3360
Number of meters per package (m):	6720

You are looking for better ideas so that you can fully exploit capacity of your baling machines. To meet this expectation of yours, we have introduced a non-standard solution in a twine made by Defalin. GOLIAT ROLLER twine has some specific properties which allow to increase output in the process of wrapping-up the ballots. Absolutely ideal shape of this twine provides for its perfect operation in baling machines, thus allowing for most effective harvest of straw or hay where balers with low crush degree are being used. Here are the advantages of using the GOLIAT ROLLER twine:

- ideal shape of ball
- high productivity at use of the twine
- easy and fluent rewinding the twine from ball
- decreased use of spare parts in balers
- lower cost of the twine consumption
- high endurance of the twine

Number of meters per kg (m/kg):	750
Breaking strength (kG):	56,0
Knot strength (kG):	31,0
Spool weight (kg):	4,8
Number of meters per spool (m):	3600
Number of meters per package (m):	7200

Type of twine and its use in baler

Type of baler	Size of bale in cm length width-height	Number of wraps	Amount of twine (in meters) per one bale	Type of twine
Binding machine	70/70/height depends on the baling machine	1	~1	HEROS/GOLIAT
Square balers	130/46/30	2	6,6	TUR/TYTAN/ATLAS
Round balers	120/120 120/150	12	45,0 56,0	TUR/TYTAN/ GOLIAT

Agriculture twines



for the round balers and square balers

Square balers

TUR

Properties of this twine are similar to those of TYTAN Standard type. TUR type guarantees electronically measured length 2011 m and is made from one piece of twine which allow for easier unwinding and better binding in baling machines. >71 kG linear tenacity and >40 kG knot tenacity provide for successful use of the twine in square balers as well as in round balers at harvest of silage, hay or straw.

Number of meters per kg (m/kg):	570
Breaking strength (kG):	71,0
Knot strength (kG):	40,0
Spool weight (kg):	3,5
Number of meters per spool (m):	2011
Number of meters per package (m):	4022

Square balers

TYTAN

Designed for use in balers which roll-up-green fodder of bigger density aimed for preparation of hay-silage, as well as in small-size square balers with high crush degree which are used for straw pressing. The TYTAN twine endurance is high enough for use in such the process. TYTAN JUMBO type guarantees 12% higher productivity than that of usual twine.

Number of meters per kg (m/kg):	500
Breaking strength (kG):	79,0
Knot strength (kG):	43,0
Spool weight (kg):	4,0
Number of meters per spool (m):	2000
Number of meters per package (m):	4000

Square balers

ATLAS

Designed for small-size square balers with high crush degree, of medium level of technical worn out.

Number of meters per kg (m/kg):	400
Breaking strength (kG):	99,0
Knot strength (kG):	54,0
Spool weight (kg):	4,0
Number of meters per spool (m):	1600
Number of meters per package (m):	3200



Agriculture twines

for the big square baler



Big square baler **GIGANT**

This product is a result of our long-lasting experience in manufacturing twines. Use of high quality raw materials provides this twine with impeccable qualities like high break tenacity, absolute knotting security and guaranteed length of twine in each ball. These properties enable farmers to make full use of GIGANT twine in their big-square baling of any type.

Use of twine (per packet/ballot)

Size of bale (m)	bale 1,5x0,7	bale 2,5 x 0,9	bale 1,5 x 0,7	bale 2,5 x 0,7
Marking of twine	(Number of ballots/packages)		(Number of ballots/packages)	
110	75,0	45,0	92,0	59,0
130	89,0	57,0	108,0	70,0
150	102,0	66,0	125,0	81,0

Number of meters per kg (m/kg):	110
Breaking strength (kG):	359,0
Knot strength (kG):	198,0
Spool weight (kg):	9,0
Number of meters per spool (m):	990
Number of meters per package (m):	1980

Number of meters per kg (m/kg):	130
Breaking strength (kG):	304,0
Knot strength (kG):	167,0
Spool weight (kg):	9,0
Number of meters per spool (m):	1170
Number of meters per package (m):	2340

Number of meters per kg (m/kg):	150
Breaking strength (kG):	263,0
Knot strength (kG):	145,0
Spool weight (kg):	9,0
Number of meters per spool (m):	1350
Number of meters per package (m):	2700

Agriculture twines

for the big square baler

Big - square baler

GIGANT Power in Knot

This twine of special above-standards properties is designed for such baling machines, where main attention is focused on producing bales of extremely high weight and density. The outstanding strength of knot guarantees that bales shall not fall apart in course of multiple reloading. Thanks to modern, unique and patented technology of production, GIGANT Power in Knot has above-average characteristics which exceeds the international standard requirements. The precisely shaped twine shows compact picture of a circle in the cross-section along its whole length. Such the property guarantees perfect work of binding device even in case some minor irregularity arises during operation of baling machine. The users will appreciate this quality because constant repetition of the binding operation as well as high break tenacity (ca. 56% of direct twine's tenacity) are of great importance for carrying-on effective and non-disturbed harvest.

Vital characteristics of the GIGANT Power in Knot:

Istotne cechy sznurka rolniczego GIGANT Power in Knot:

- guaranteed length of twine in two balls
- guaranteed number of meters / kg of twine
- guaranteed direct tenacity of twine >400 kG
- guaranteed tenacity of twine in knot – above 56% of the direct twine tenacity
- the product gets wound-up in balls from one section of the twine
- coarseness of twine makes knotting easier
- the product complies with the European and global quality standards



Number of meters per kg (m/kg):	110
Breaking strength (kG):	400,0
Knot strength (kG):	233,0
Spool weight (kg):	9,0
Number of meters per spool (m):	990
Number of meters per package (m):	1980

Number of meters per kg (m/kg):	130
Breaking strength (kG):	340,0
Knot strength (kG):	197,0
Spool weight (kg):	9,0
Number of meters per spool (m):	1170
Number of meters per package (m):	2340

Number of meters per kg (m/kg):	150
Breaking strength (kG):	294,0
Knot strength (kG):	170,0
Spool weight (kg):	9,0
Number of meters per spool (m):	1350
Number of meters per package (m):	2700

Agriculture twines

for the High Density Press



High Density Press

GIGANT JUMBO

The agriculture twine GIGANT JUMBO is perfectly suitable for use at harvest on vast fields. It is designed for binding bales of straw and hay in baling machines with high crush degree. The balers adjusted to this kind of harvest can make maximum use of its impeccable qualities. Specific structure of this twine makes for effective and secure knotting with use of special knotting devices. 14-inch package allows for holding 22% more twine in a ball than in case of standard 12-inch balls which means that it is possible to produce proportionally bigger number of bricks with making use of only one ball.

Characteristics of GIGANT JUMBO:

- guaranteed high quality of DEFALIN product
- bigger amount of twine in a ball
- knotless packages
- unwinding up to the last meter
- reliable knotting
- high tenacity

For use of balers operated in the most demanding conditions, we can make special twines equipped with additional weave to eliminate effect of sliding inside knots. This additional weave also plays a role of a unique crop's identifier.

Number of meters per kg (m/kg):	110
Breaking strength (kG):	400,0
Knot strength (kG):	233,0
Spool weight (kg):	11,0
Number of meters per spool (m):	1210
Number of meters per package (m):	2420

Number of meters per kg (m/kg):	130
Breaking strength (kG):	340,0
Knot strength (kG):	197,0
Spool weight (kg):	11,0
Number of meters per spool (m):	1430
Number of meters per package (m):	2860

Number of meters per kg (m/kg):	150
Breaking strength (kG):	294,0
Knot strength (kG):	170,0
Spool weight (kg):	11,0
Number of meters per spool (m):	1650
Number of meters per package (m):	3300



Products for horticulture

- „OGRODNIK” twine for use in greenhouse
- „LUPULINA” twine for use on hop plantation

Agriculture and horticulture twines belong to large assortment of Defalin's products.

Made of the highest quality raw materials, they guarantee splendid physical properties. Through application of the appropriate production technology, they fully satisfy expectations of the users in gardening, fruit farming, greenhouse and foil-wrapped cultivation, as well as on hop and tobacco plantations.

Products for horticulture



Twine for use in greenhouse

Ogrodnik

The agriculture twine „OGRODNIK” type is also recommended for use in gardening. Its physical properties allow for use in difficult conditions in greenhouses. Effect of the sun radiation gets eliminated through adding right amount of UV stabilizer to the PP raw material. This twine is soft to the touch which makes it plant-friendly (reduced risk of breaking sprouts led along the twine) and makes easier the task of tying up plants. Balls of „OGRODNIK” twine are wound up without knots which allows for smooth unwinding the balls.



Number of meters per kg (m/kg):	1000
Breaking strength (kG):	37
Spool weight (kG):	4,0
Number of meters per spool (m):	4000
Number of meters per package (m):	4000

Twine for use on hop plantation

Lupulina

LUPULINA is an agriculture twine enriched with additional weave. During the process of growth stems of hop creep up the hanging down twines and this additional weave gives them additional support and makes that creeping easier. Also, such additional weave is for the creeper a perfect hook-point and protects the plant against sudden slipping down. In every full package, each one of the twine's threads is made without knots. These threads twisted together guarantee high break resistance. In order to reduce effect of the sun radiation, the LUPOLINA twine contains proper amount of the UV stabilizer additive.



Number of meters per kg (m/kg):	700
Breaking strength (kG):	56
Spool weight (kG):	4,8
Number of meters per spool (m):	3360
Number of meters per package (m):	6720

Technical Products

Rich offer of the DEFALIN products contains various types of Cords, Twines and Ropes .

Long-lasting experience along with use of the most modern production lines have resulted in building extremely wide offer of such products, made from the highest quality raw material. They can be used in many fields, both as final products meant for the end-users and as half-finished products. Application of proper production technologies and conditioning of the products, are meant to satisfy needs of individual customers and to offer the goods dedicated to households.

- **Cords, twines and ropes to be used in household, industry and agriculture**
- **Ropes for binding firewood**
- **Ropes for electric fence**

	Diame- ter	Number of me- ters per coil	Unit mass	Coil weight	Breaking	Coil size [Øxh]	Tube size [Øxh]
	mm	m	g/m	kg	kG	mm	mm
PP Cords	3	300	5,0	1,50	169	200 x 145	50 x 145
	3	500	5,0	2,50	169	200 x 145	50 x 145
	3,5	300	6,5	1,94	218	220 x 145	50 x 145
	4	270	8,0	2,16	270	225 x 145	50 x 145
	4	600	8,0	4,80	270	300 x 195	-
PP Cords	5	550	11,0	6,05	406	320 x 220	-
	6	220	17,0	3,74	575	260 x 210	-
	8	220	30,0	6,60	1015	300 x 225	-
	8	500	30,0	15,00	1015	360 x 325	-
PP Ropes	10	220	45,0	9,90	1523	350 x 270	-
	12	220	65,0	14,30	2200	395 x 280	-
	14	220	90,0	19,80	3045	420 x 320	-
	14	500	90,0	45,00	3045	580 x 400	-
	16	110	115,0	12,65	3892	370 x 300	-
	16	220	115,0	25,30	3892	440 x 350	-
	16	500	115,0	57,50	3892	560 x 440	-
Ropes for electric fence							
Electric fence	5	300	15,0	4,50	507	-	270 x 190
	Size of strand	Number of me- ters per coil	Unit mass	Coil weight	Breaking	Coil size [Øxh]	
	pc.	m	g/m	kg	kG	mm	
PP rope packing	12	110	36,0	3,96	1250	235 x 270	

Technical products



PP Twines 3-4 mm

Made of polypropylene, they are used in the leather, furniture and even food industries. The appropriate conditioning allows for easy and convenient use of these strings in household.

PP Twines 5-8 mm

Those twines are used to fasten and pack various goods. The use of cones made possible the application of twines in baling machines (waste, waste-paper).

PP Ropes 10-16 mm

3-strand twisted ropes fulfil many functions in agriculture and gardening, in building industry and in transportation. Confectioning applied to these products allows for their effective use in household environment.

Electric fence cord 5mm

Electric fence is a polypropylene 3-strand twisted rope. Each strand contains copper tinned wire of adequate diameter which guarantees perfect conductivity. Properly chosen colouring of the cord helps animals to easily catch sight of the fence.

ADVANTAGES OF THE PRODUCT:

- proper elongation capability which allows for avoiding breakages even in case of considerably strong tension of the cord
- polypropylene ropes are substantially durable since they undergo very limited degradation caused by the environment factors

SPECIFICATION

Notice: Right choice of energizer and accessories is the condition of proper performance of the electric fence.



PP rope for wood packing

One of the methods used for packing firewood is binding it with the PP rope. 12-strand rope is especially designed for this purpose. Its loose soft weave made of homogeneous material guarantees sure and effective binding as well as high break tenacity.



defalin zwiąże najpewniej

P.P.H.U. „Defalin” Group S.A.

**ul. Towarowa 16
58-160 Świebodzice, Poland**

Sales Department:

tel.: +48 74 854 99 28

fax +48 74 854 99 29

e-mail: dh@defalin.com.pl

tel.: +48 74 854 99 81

fax +48 74 854 99 29

e-mail: dhws6@defalin.com.pl

Join our community and be supplied with
Defalin's news.



facebook.com/DefalinGroup



twitter.com/DEFALINGROUP

www.defalin.com.pl

This brochure is meant to only give a general description and information. It may be changed and is neither a commercial offer, nor a description of actual state, and is not a guarantee issued or suggested by Defalin Group S.A. Before taking decision of purchase of any goods on the basis of this brochure, it is necessary to contact directly the sales Department of Defalin so that its relevance with regards to particular items of interest can be confirmed. Defalin reserve the right to change specification of materials and description of products in any time and without warning as well as to cease offering a particular version of product. Due to constant development of the offered products as well as other production factors and norms, the currently available kinds of products materials and specifications may differ from the ones as presented in this brochure.

