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INSECT TRAPS AND PHEROMONES – INTERESTING FACTS

Catching pests with pheromone traps is a highly efficient biotechnological measure (without poison) to monitor beetle activity and to mass trap beetles.



The most dangerous bark beetle, the European spruce bark beetle (*Ips typographus*), is approx. 4.2 to 5.5 mm long.

Several insect species may become pests. They can cause disease and bring death to their host plants. These insects use their scenting ability to find suitable host plants and members of the same species that release certain odorous substances (kairomones, pheromones, for further information see page 58). Trapping systems use these abilities of insects to locate host plants or members of the same species and feature synthetically manufactured odorous substances to attract them and to, eventually, catch them. Besides, the simple use of colours is also very effective to attract certain pests (see colour panels, page 164).

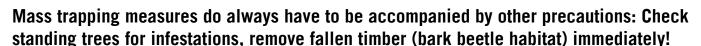
Why use insect traps and pheromones?

Monitor beetle activity to:

- allow a more targeted and timely use of control measures
- obtain information on beetle occurrence and population density
- allow more accurate predictions on population development (generation succession)

Mass-trap pest insects to (possible with suitable traps, e.g. MultiWit®):

- reduce the number of pest insects
- reduce damage





Spruce bark beetles caught in the trap-tub of our WitaTrap® Bark Beetle Slit Trap (dry trapping method) – these beetles cannot cause damage anymore.



MultiWit® Bark Beetle Slit Trap is suitable for mass trapping various bark beetle species (e.g. European and six-toothed spruce bark beetle & many others) – both trapping methods (dry and wet) possible.

We offer leading and state-of-the-art trapping systems for many insect pests!

PHEROMONES (ATTRACTANTS) - INTERESTING FACTS

Pheromones (attractants) consist of odorous substances characteristic of certain insects and are designed to attract members of the same species:

Sex pheromones:

These pheromones are released by females and do only attract the males (e.g. most moth attractants).

Aggregation pheromones:

These pheromones are released by insects to indicate, e.g., the location of a tree suitable for breeding. Therefore, males and females are attracted (e.g. bark beetle attractants).

Besides, **kairomones** are commonly used. These substances are characteristic of trees and **attract insects looking for host plants**.

Depending on the pest species, Witasek uses a mixture of highly pure pheromones and kairomones that ensure excellent catch results!

Pheromone traps & pheromone types:

Various pheromone trap types are available (see page 76 The most commonly used one is the "slit trap". Our MultiWit® Bark Beetle Slit Trap is a state-of-the-art product innovation for mass trapping pests and suitable for use as a dry and a wet trap (see page 63).

Different pheromone types:

- standard dispenser
- ampoule
- tube
- plug











100,000 females caught can prevent a population increase of up to 1.6 billion bark beetles.

PHEROMONES FOR SPRUCE BARK BEETLES - INTERESTING FACTS

The most common and most dangerous spruce bark beetle species are the **European spruce bark beetle** (*Ips typographus*) and the **six-toothed spruce bark beetle** (*Pityogenes chalcographus*).

In particular, the European spruce bark beetle is **the** most significant forest pest in many areas. Bark beetles bore into the bark to construct galleries for their brood between bark and wood. Except for the striped ambrosia beetle (*Trypodendron lineatum*) that bores into the wood and produces white boring dust. The sap can no longer circulate in the tree, the tree begins to dry out and eventually dies. European spruce bark beetles usually infest strong spruces and are mainly responsible for pockets of infestation in mid- or late summer (groups of trees are successfully attacked and killed, foliage of infested trees turns reddish throughout the crown and bark begins to flake off). In strong spruces the European spruce bark beetle and the six-toothed spruce bark beetle often occur together, the six-toothed spruce bark beetle predominantly attacking the sections with thin bark (crown, branches). Besides, *Pityogenes chalcographus* rather attacks younger trees. The company witasek has a year-long experience of developing and improving bark beetle pheromones.



How to control European and six-toothed spruce bark beetles

- mass trapping with MultiWit® Bark Beetle Slit Trap
- trap wood piles (= wood used as traps)
- trap trees (additionally apply pheromone to enhance attracting effect)

Why monitor beetle flight activity with bark beetle traps?

- to determine start of flight period and flight curve
- to assess **population pressure** (high catch numbers = greater attention on infestation of standing trees)
- to **allow forecasts** on development of beetle generations (How many generations will occur?)

Tips for the installation and use of bark beetle traps:

- trap distances: keep safety distance of at least 10 to 12 metres from trap to non-infested spruces, install traps 25 to 30 metres apart (see pages 60 to 61)
- installation time: install late March or in April, in any case before start of flight period in April/May







THE RIGHT USE OF FOREST PROTECTION MEASURES



All forest protection measures require their proper use. The image below gives you an impression on the practical use of our forest protection products with a focus on bark beetle control. The image below is designed to serve as a recommendation only. Please read label and product information before use.



WitaTrap® Bark Beetle Slit Trap

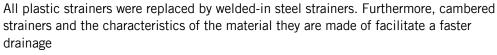
Our "proven" standard trap with the IMPROVED Capture Container for dry trapping methods

Complete with standard Capture Container (standard trap-tub).



WitaTrap® Bark Beetle Slit Trap (see page 66 for accessories)

- Especially smooth surface bark beetles cannot grab hold, they immediately slide down and fall through the entry slits into the capture container (trap-tub).
- · additional screw connections for greater stability
- enhanced arrangement of entry slits
- WitaTrap® Trap-Tub features:



WitaTrap® Trap-Tub

features new steel strainers

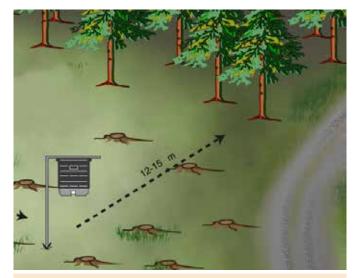
- of rain water.
- top quality material durable for several years
- trap body dimensions: 50 cm high, 49 cm wide, 6.5 cm deep (excl. entry slits)
- colour: dark brown/black
- Don't forget to order the right pheromone! (for pheromones for bark beetles see p. 72, 73, 75; for other pheromones see p. 76)



item no.	item	price (in €)	
item no.	iteiii	per piece	
314031	WitaTrap® Bark Beetle Slit Trap (without stayer) (6 pieces/box)	per p	oiece
	from 72 pcs. (pallet)		
	36 to 71 pcs.		
	1 to 35 pcs.		

Safety distance between bark beetle slit traps and forest – Traps can be installed on stands individually or in an arrangement of three.

Keep a distance of 12 to max. 15 metres between bark beetle slit traps and healthy trees. Traps can be installed individually (1 trap per stand) or in a star-like arrangement (3 traps per stand) (see below).



Bark beetle slit trap installed on stand for individual traps (see page 67)



Three bark beetle slit traps installed on trap stand (see page 67)

MultiWit® Bark Beetle Slit Trap

Probably the best bark beetle slit trap for mass trapping bark beetles, with the tried and tested MultiWit® Trap-Tub suitable for wet trapping and dry trapping methods

MultiWit® Bark Beetle Slit Trap, complete incl. MultiWit® Trap-Tub and Funnel. (see page 66 for spares)

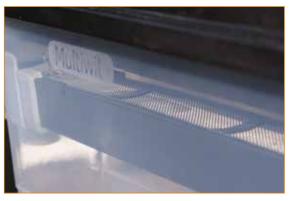
Slit traps are outstanding biotechnological monitoring and control systems for bark beetles (European spruce bark beetle, six-toothed spruce bark beetle, striped ambrosia beetle, pine shoot beetle, lesser pine shoot beetle, larch bark beetle etc.).

- Especially smooth surface bark beetles cannot grab hold, they immediately slide down and fall through the entry slits into the trap-tub.
- · additional screw connections for greater stability
- enhanced arrangement of entry slits
- top quality material durable for several years
- features the tried and tested trap-tub and rain gutter
 All plastic strainers were replaced by welded-in steel strainers.
 Furthermore, cambered strainers and the characteristics of the material they are made of facilitate a faster drainage of rain water.
- trap comes with a pack of AntiSmell Trap Salt (page 64) that we recommend for the wet trapping method
- trap body dimensions:
 50 cm high, 49 cm wide, 6.5 cm deep (excl. entry slits)
- colour: dark brown/black
- Don't forget to order the right pheromone! For pheromones for bark beetles see pages 72, 73, 75; for other pheromones see page 76.





MultiWit® Rain Gutter featuring steel strainer in our MultiWit® Trap-Tub.



item no.	item	price (in €)	
item no.		excl. VAT	incl. VAT
314051	MultiWit® Bark Beetle Slit Trap – incl. 1 pack of AntiSmell Trap Salt (without stayer) (6 pieces/box)	per piece	
	from 72 pcs. (pallet)		
	36 to 71 pcs.		
	1 to 35 pcs.		



AntiSmell Trap Salt

Trap Salt for wet trapping bark beetles with the MultiWit® Trap-Tub and Wita® Universal Capture Container



substances) deterring other bark beetles and deodorises the smell of decaying beetles caught in traps.

With one 150 g package you can obtain 700 ml of the salt-water-solution

AntiSmell Trap Salt is a natural, inorganic product that, when used in trapping systems with catch liquids, prevents the release of pheromones (messenger

With one 150 g package you can obtain 700 ml of the salt-water-solution = one trap-tub filling.

• One filling can suppress the smell of approx. 15,000 to 20,000 bark beetles. Thus, traps only need to be checked every 4 to 8 weeks, depending on flight intensity and flight duration (saves time and money).

Disposal: AntiSmell Trap Salt has food quality – therefore the salt or salt-water-solution can be disposed of with no problem in the household trash.

For the wet trapping of bark beetles with the MultiWit® Trap-Tub (see p. 65) and the MultiWit® Bark Beetle Slit Trap (see p. 63)

:+	item	price (in €)	
item no.	item	excl. VAT	incl. VAT
391411	AntiSmell Trap Salt (shipping unit: 1 pack = 2 x 150 g)	per pack	
	1 pack		

• Filling instructions: The salt bag can also be used as a funnel for filling the water-salt solution.











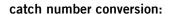
This is how it's done: First, cut off the upper corner. Then pour the salt next to the rain gutter into the collecting container or into a container with 700 ml of water and mix. Then cut off the bottom of the bag and use the bag as a funnel.

Bark Beetle Measuring Cup

To easily count the beetles caught



Bark Beetle Measuring Cup is available in 2 sizes (100 ml and 250 ml).

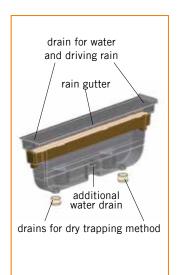


- 1 ml of European spruce bark beetles equals approx. 40 beetles
- 1 ml of ambrosia beetles equals approx. 130 beetles
- 1 ml of six-toothed spruce bark beetles equals approx. 600 beetles



item no.	item	price (in €)	
item no.	iteiii	excl. VAT	
315851	Bark Beetle Measuring Cup – 100 ml	per p	oiece
	from 10 pcs.		
	1 to 9 pcs.		
315861	Bark Beetle Measuring Cup – 250 ml	per p	oiece
	from 10 pcs.		
	1 to 9 pcs.		

MultiWit® Trap-Tub for Bark Beetle Slit Traps



All plastic strainers were replaced by steel strainers.

Wet trapping:

Beetles are killed immediately in the water-salt-solution: no release of pheromones that would deter other bark beetles, no smell of decaying beetles.



For wet trapping: Plug caps are installed.



Plug caps are removed, water can escape through cambered steel strainers (rain gutter remains installed).

The best trap-tub for mass trapping bark beetles (wet trapping) – complete, without funnel

- designed for MulitWit® Bark Beetle Slit Trap can also be used with all other slit trap types (e.g. Theysohn, Ridex, etc.) and funnels.
- Trap-tub can be used for catching all bark beetle species e.g. European spruce bark beetle (*Ips typographus*), six-toothed spruce bark beetle (*Pityogenes chalcographus*)
- top quality material durable for several years
- welded-in steel strainers prevent the catched beetles from escape. (see page 63 for further information)

item no.	o. item	price (in €)		
item no.	iteiii	excl. VAT	incl. VAT	
313111	MultiWit® Trap-Tub complete without funnel	per piece		
	from 10 pcs.			
	1 to 9 pcs.			

Our Trap-Tub gives you the choice between several trapping methods!

Wet trapping:

Trapping systems with catch liquids have proven to be most effective for the control of massive amounts of bark beetles. These methods require the trap-tub to be filled with water and AntiSmell Trap Salt to achieve constantly high catch results.

The following tips will allow you to increase catch numbers and save time and labour:

- No messanger substances: Bark beetles caught die very quickly in the water-salt-solution (AntiSmell Trap Salt, see page 64) in the trap and therefore are no longer able to release messenger substances which could deter other beetles from approaching the trap. This ensures constantly high catch numbers and reduces the danger of an infestation of standing trees considerably.
- No smell of decaying beetles: Conventional trapping systems do not suppress the smell of decaying beetles and thus the pheromones cannot have the desired attracting effect. This is why it is essential to check and empty dry trapping systems on a weekly basis. When trapping systems with liquids are used (wet trapping) the water-salt-solution neutralises the smell of decaying beetles and the attracting effect of pheromones remains unaffected. As a consequence, catch rates constantly remain at a high level and traps only need to be checked every 4 to 8 weeks, depending on flight intensity and flight duration.
- Catch liquid concentration: A specially designed gutter featured in the MultiWit® Trap-Tub leads rainwater out of the trap so that the concentration of the catch liquid remains effective. When too much water enters the trap, an additional water drain in the middle of the tub draws off the excess water.
- colour: transparent, allows easy trap checks to determine your catch success

Dry trapping:

Trapping systems without catch liquids are ideally suitable for monitoring bark beetle populations in their main flight periods. The transparent trap-tub facilitates weekly checks of traps and catch success, and the beetles caught can be easily counted. When the trap-tub is used for dry trapping, plug caps are removed from the drains of the MultiWit® Trap-Tub so that water can run off (i.e. conventional system).

Depending on your needs, you can switch between monitoring (dry trapping) and mass trapping (wet trapping) during the flight period.

Please read the instructions enclosed before use, also available for download at www.witasek.com.

Bark Beetle Slit Traps: Retrofitting, components and spares



Trap Body for Bark Beetle Slit Trap, without funnel

- improved trap body greater stability, enhanced arrangement of entry slits
- · new colour for greater catch rates
- · colour: dark brown

itom no	item no.	price (in €)	
item no.	iteiii	excl. VAT	incl. VAT
391551	Trap Body for Bark Beetle Slit Trap dark brown (MultiWit®/WitaTrap®) without Trap-Tub	per piece	
	from 10 pcs.		
	1 to 9 pcs.		



Rain Gutter with Steel Strainer for MultiWit® Trap-Tub

- leads "excess water" (e.g. entering through driving rain) out of trap
- comes preassambled
- welded-in steel strainers prevent the catched beetles from escape

391521	Rain Gutter for MultiWit® Trap-Tub	per p	per piece	
	from 10 pcs.			
	1 to 9 pcs.			



Plug Cap for MultiWit® Trap-Tub

391541	Plug Cap for MultiWit® Trap-Tub	per p	oiece
	from 10 pcs.		
	1 to 9 pcs.		



Funnel for MultiWit® Trap-Tub and WitaTrap® Capture Container standard

The funnel prevents the trapped bark beetles from escape out of the capture container.

- to be installed between trap body and trap-tub
- colour: dark brown

391511	Funnel for MultiWit® Trap-Tub and WitaTrap® Catpure Container	per p	oiece
	from 10 pcs.		
	1 to 9 pcs.		



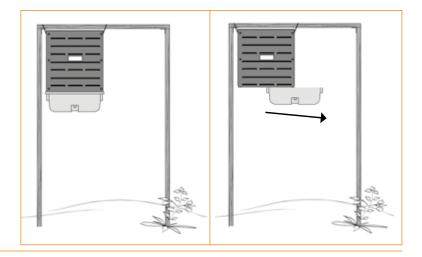
WitaTrap® Capture Container (Trap-Tub standard), without Funnel

- standard trap-tub (excl. funnel) for dry trapping methods
- welded-in steel strainers prevent the catched beetles from escape.

313011	WitaTrap® Capture Container standard without Funnel	per p	oiece
	from 10 pcs.		
	1 to 9 pcs.		

Example of the assembly of a bark beetle slit trap

- ideal for hanging on a hardwood frame
- secure to the frame using cable ties (see p. 40) or wire
- hang the trap so that there is sufficient space to draw out the trap tray
- secure the trap so that it cannot be moved by the wind
- lower edge of the trap approx. 1.30



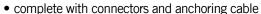
Trap Stand for Three Bark Beetle Slit Traps

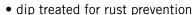
The easiest way to install three bark beetle slit traps in a star-like arrangement

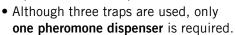
SERVICE PRODUCT

Catch numbers with star-like trap arrangements consisting of three traps are much higher than those of individually installed traps

Star-like arrangement facilitates catches from all directions: Bark beetles attracted can perceive trap walls from all directions. This ensures high catch numbers, irrespective of wind directions.









• The height is adjustable.





Three traps installed on trap stand: see pages 62 and 63 for suitable traps

item no.	item	price	(in €)
iteiii iio.	iteiii	excl. VAT	incl. VAT
313211	WitaTrap® Bark Beetle Trap Stand for Three Traps (without Traps)	per piece	
	1 pc.		

How to install a star-like trap arrangement consisting of three traps:





Drive anchor into ground



... place trap stand on it. Tighten the three guy ropes and use the pegs provided to secure stand to ground ...











... mount the three bark beetle slit traps on the stand. **Tip:** Use pliers to bend and, thereby, slightly open hooks to facilitate installation.

WitaTrap® Multi Funnel Trap

Trap for wet and dry trapping of bark beetles, also suitable for metallic wood-boring beetles and long-horned beetles

- very low priced
- · easy to assemble and install
- easy to clean, room-saving storage
- with Wita® Universal Capture Container!

 (more informations to the new universal capture container page 70)
- transparent capture container facilitates trap checks
- suitable for wet and dry trapping method
- Don't forget to order the right pheromone! (Pheromones see pages 72 and following)
- for wet trapping use AntiSmell Trap Salt (p. 64)
- NEW 2024: smoother material surface and reinforced roof construction



With Wita® Universal Capture Container.



The bayonet lock of the new Wita® Universal Capture Container ensures an optimal hold on the end segment of the WitaTrap® Multi Funnel Trap.



WitaTrap® Multi Funnel Trap 11 + 1



item no.	item	price (in €)	(in €)
	iteiii	excl. VAT	incl. VAT
310641	WitaTrap® Multi Funnel Trap – 5 segemnts + 1 incl. Wita® Universal Capture Container (5 pieces/box)	per piece	
	180 pcs./palette		
	6 to 175 pcs.		
	1 to 5 pcs.		
310651	WitaTrap® Multi Funnel Trap – 11 segemnts + 1 incl. Wita® Universal Capture Container (4 pieces/box)	per piece	
	144 pcs./palette		
	5 to 140 pcs.		
	1 to 4 pcs.		

Wita®Prall Cross-vane panel trap



With Wita® Universal Capture Container.

Trap for wet and dry trapping of bark beetles, also suitable for metallic wood-boring beetles and long-horned beetles like e.g. pine sawyer beetle (Monochamus galloprovincialis)

- · easy to assemble and install
- with Wita® Universal Capture Container! (more informations to the new universal capture container page 70)
- suitable for wet and dry trapping method
- hollow chamber material (PP), UV stable
- Don't forget to order the right pheromone! Pheromones see pages 72 and following.
- For wet trapping use AntiSmell Trap Salt (p.64).



intem no.		price (in €)	
	item	excl. VAT	incl. VAT
315631	Wita®Prall Cross-vane panel trap (5 pieces/box)	per piece	
	from 30 pcs.		
	1 to 29 pcs.		
	Spare parts available upon request!		

Assembly - Wita®Prall Cross-vane panel trap













- Assemble the main section from the two impact surfaces. To do this, press the individual surfaces into each other at a right angle, slotted side first, and secure to the holes using cable ties.
- Open out the main section into a cross and attach the cover section using the four slots.
- Bend the wire suspension outward at the loose ends to form a roof shape. Place this on the cover section at the intersection of the wire and the mounting hole (main and cover sections), bend the wire 90°, pass it through the hole and once again bend it 90° to secure it to the top of the cover section. (A practical tip: the two remaining holes can be secured with a piece of wood.)
- Place the base section with the four slits on the bottom of the main section.
- Hook the adapter with the groove into the four plastic hangers on the base section and secure this so that everything interlocks using the fixing balls.
- Now attach the universal collection container with the bayonet mount to the adapter; ensure this clicks into place.
- When the trap has been put in place, the pheromone can be inserted through the provided hole in the main section with the help of a wire or tape.
- If you are using the wet trapping method, fill the collection container with water and add AntiSmell trap salt if you wish.
- Optional protection in strong winds: the trap provides a point of attack for the wind. Use wire or twine to secure the lower part of the trap by tying it crosswise so that it is not blown around by the wind. In windy areas, the collection container can also be secured to the bayonet ring of the adapter using a piece of wire (such as a paperclip).

Wita® Universal **Capture Container**

The Wita® Universal Capture Container for the WitaTrap® Multi Funnel Trap and Wita®Prall Cross-vane panel Trap.

The Wita® Universal Capture Container is universally applicable and designed for the WitaTrap® Multi Funnel Trap and Wita®Prall Cross-vane panel Trap.

Technical data:

• capacity: 1,000 ml before overflow

• caterial: PP (polypropylene)

UV-stabilised

Dimensions:

• height: 27 cm

• diameter with bayonet ring: 102 mm

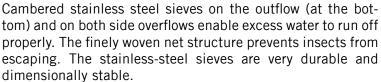
• weight incl. lid: 170 g



Bayonet lock with safety lock

The bayonet lock facilitates maintenance work and provides for an optimal hold of the Capture Container even in windy locations.





With the wet trapping method, overflow sieves provide for good drainage of excess rainwater. In addition, the AntiSmell Trap Salt (page 64) can be used to suppress the smell of the decomposing beetles in the trap.

The outflow sieve at the bottom guarantees drainage of rainwater with the dry trapping method.



Base

Three stable legs enable the bottle to be placed on the ground for maintenance work without tipping over. This facilitates maintenance work on the trap.



Lid for wet trapping

With the wet trapping method, the lid is placed on the outflow on the bottom to seal it. The lid is additionally attached with a cord to the trap to prevent it from getting lost.







designed for the

WitaTrap® Multi

Funnel Trap

vane panel Trap

5555
Hooks for Adapter Wita®Prall Cross-vane panel Trap

item no.	:1	price (in €)	
	item	excl. VAT	incl. VAT
310711	Wita® Universal Capture Container	per p	oiece
	from 10 pcs.		
	1 to 9 pcs.		
Retrofit ac	cessories for Multi Funnel Trap and Cross-vane Panel Trap – Service-Pro	ducts	
315681	Adapter for Wita®Prall Cross-vane panel Trap incl. hooks	per p	oiece
	from 10 pcs.		
	1 to 9 pcs.		
Spares – S	ervice-Products		
310721	Lid for Wita® Universal Capture Container	per p	oiece
	from 10 pcs.		
	1 to 9 pcs.		
315661	Hook for Adapter for Wita®Prall Cross-vane panel Trap	per pa	ckage
	from 10 packs		
	1 to 9 packs		

Universal Trap Stand

Universal trap stand for traps (e.g. multi funnel traps, cross-vane panel traps)





The innovative trap stand enables easy installation of trap systems such as WitaTrap® multi funnel trap, Wita®Prall cross-vane panel trap, and much more and ensures their secure hold. No additional, bulky construction materials have to be taken along or searched for at the installation site.

- overall height approx. 2.80 m
- 3-part telescopic feet, continuously adjustable in height
- light weight
- easy to assemble according to instructions
- high quality aluminum construction height adjustable
- Uneven floors are easily compensated for by the telescopic rods.
- The pressed-in tips ensure the best grip in the ground.
- includes pegs for attachment to the surface
- note other fastening options as described (drive in acacias on the feet)
- Traps attached to the universal trap upright can be tied to the feet with a cord/thread. So the trap doesn't move in the wind.



- 1 trap stand (high quality aluminium)
- incl. pegs for an easy installation on the ground





Scope of delivery without trap

item no.	item	price (in €)	
		excl. VAT	incl. VAT
315951	Universal Trap Stand shipping unit: 1 Universal Trap Stand incl.pegs	per piece	
	ab 10 pcs.		
	5–9 pcs.		
	1–4 pcs.		

WitaTrap® Pine Weevil catching tube

The optimal trap for monitoring and catching the large pine weevil (Hylobius abietis)

The WitaTrap® Weevil Catching Tube is for determining the existence of and for combating the large pine weevil. The beetle is targeted and attracted by the pheromone rod. Using the entry lips, which are tapered inwards, it reaches the catching tube and can't get back out again.



- The trap has an opening at each end for maintenance.
- The lids are easy to open and close.
- There are two small openings on the bottom to ensure water can drain properly.
- application: 6–10 catching tubes per hectare
- catching tube length: 61 cm
- number of entry openings: 12
- material: polyethylene
- colour: grey





item no.	:4	price (in €) excl. VAT incl. VAT	(in €)	
	item		incl. VAT	
312821	WitaTrap® Weevil Catching Tube complete set – Catching Tube incl. pheromone	per	set	
	from 30 sets			
	1 to 29 sets			
322811	Hylowit® (shipping unit: 1 pc.)	per piece		
	from 100 pcs.			
	1 to 99 pcs.			

PHEROMONES TO ATTRACT EUROPEAN SPRUCE BARK BEETLE (Ips typographus)



Ipsowit® Standard

Pheromone to attract European spruce bark beetle (Ips typographus), in proven dispenser foil packing



IPSOWIT® FJ (spring)

IPSOWIT® FJ (spring) is for the generation of beetles first swarming in the spring, at temperatures of 16 to 18 °C, usually from mid-April to the start of May. IPSOWIT® FJ is characterised as being more attractive for the European spruce bark beetle in the spring. Increased catch rates can be achieved thanks to the newly-developed composition.

IPSOWIT® STANDARD

IPSOWIT® Standard is for all the periods during bark beetles are in flight. If IPSOWIT® FJ was used for catching the first swarm flight, IPSOWIT® Standard can be seamlessly deployed afterwards. That means that consistent catching rates can be guaranteed, even over the summer months. The composition of this bait provides the usual high level of attraction for the European spruce bark beetles.



• effective: 6 to 8 weeks (depending on weather conditions)

item no.	item	price (in €)	
		excl. VAT	incl. VAT
323211	Ipsowit® FJ (spring) (pack of 5 pcs.)	per p	oiece
	from 100 pcs.		
	5 to 95 pcs.		
323411	Ipsowit® Standard (pack of 5 pcs.)	per p	oiece
	from 100 pcs.		
	5 to 95 pcs.		

Pheroprax® Ampoule

Pheromone to attract European spruce bark beetle

(Ips typographus)



Liquid pheromone is filled in **double-chamber ampoule** – fill level of ampoule is easily visible and a new ampoule can be hung next to the old one when necessary.

• effective: 6 to 8 weeks (depending on weather conditions)

item no.	:baun	price (in €)	
	item	excl. VAT incl. VAT	incl. VAT
324411	Pheroprax® Ampoule	per piece	
	from 50 pcs.		
	1 to 49 pcs.		

TIP: See page 75 for our combined pheromone "KombiWit® Tube" with long term effect to attract the European spruce bark beetle (Ips typographus) and the six-toothed spruce bark beetle (Pityogenes chalcographus)

PHEROMONES TO ATTRACT SIX-TOOTHED SPRUCE BARK BEETLE (Pityogenes chalcographus)



Chalcowit®

Pheromone to attract six-toothed spruce bark beetle (Pityogenes chalcographus) in proven dispenser foil packing



Standard pheromone with constant catch rates during all flight periods

• effective: 6 to 8 weeks (depending on weather conditions)

item no.	item	price (in €)	
	iteiii	excl. VAT incl. VAT	incl. VAT
321411	Chalcowit® - Dispenser Technology (pack of 5 pcs.)	per piece	
	from 100 pcs.		
	5 to 95 pcs.		

Chalcoprax® Ampoule

Pheromone to attract six-toothed spruce bark beetle

(Pityogenes chalcographus)



Liquid pheromone is filled in **double-chamber ampoule** – fill level of ampoule is easily visible and a new ampoule can be hung next to the old one when necessary.

• effective: 6 to 8 weeks (depending on weather conditions)

item no.	:4	price (in €)	
	item	excl. VAT incl. VAT	incl. VAT
321211	Chalcoprax® Ampoule	per piece	
	from 50 pcs.		
	1 to 49 pcs.		

TIP: See page 75 for our combined pheromone "KombiWit® Tube" with long term effect to attract the European spruce bark beetle (*Ips typographus*) and the six-toothed spruce bark beetle (*Pityogenes chalcographus*)



COMBINED PHEROMONE FOR EUROPEAN SPRUCE BARK BEETLE (Ips typographus) AND SIX-TOOTHED SPRUCE BARK BEETLE (Pityogenes chalcographus)

KombiWit® Tube with long term effect

Long-term pheromone to attract European spruce bark beetle (*lps typographus*) and six-toothed spruce bark beetle (*Pityogenes chalcographus*), filled in a special tube ampoule that allows you to check the fill level



The fact that the European spruce bark beetle and the sixtoothed spruce bark beetle often occur together suggests to use a combined pheromone to attract both of them to a trap. KombiWit® Tube offers you this opportunity.

- Effective: up to 20 weeks One ampoule usually lasts up to one complete vegetation period. The duration of action is considerably reduced at very high temperatures.
- Alternatively, separate pheromones for European spruce bark beetle and six-toothed spruce bark beetle can be used in trap.





One tube dispenser for two bark beetle species.

• the filling level of the tube can be seen

item no.	item	price (in €)	
	iteiii	excl. VAT incl. VAT	incl. VAT
323711	KombiWit® Tube – with long term effect	per piece	
	from 100 pcs.		
	1 to 99 pcs.		

UNIVERSAL ATTRACTANTS

HostoWit® Plus



GLV Plus (green leaf volatiles)



Universal attractants for pest insects and boosters of other pheromones

These universal attractants include odorous substances that simulate host plants. This is why they attract conifer pests (HostoWit® Plus) or pests attacking deciduous woods (GLV Plus).

HostoWit® Plus can also be used alone (without another pheromone) and has very good attracting effects on **conifer pests** like pissodes weevils and many others. (Attention: can only be stored for 6 months)

GLV Plus can also be used alone (without another pheromone) and has very good attracting effects on **pests attacking deciduous woods** like Asian long-horned beetles (*Anoplophora glabripennis*), cock chafers (*Melolontha sp.*) and many others.

Your advantages by using these products:

- Additional catch of second and third pests that occur in addition to the main pest.
- To attract pest insects for which (as yet) species specific pheromones are not available.
- to boost the attracting effect of other pheromones (HostoWit® Plus e.g., HyloWit®; GLV Plus e.g. MeloWit®)
- the filling level of the tube can be seen

item no.	:10.00	price (in €)	
	item	excl. VAT incl. VAT	incl. VAT
322911	HostoWit® Plus (shipping unit: pack of 5 pcs.)	per p	oiece
	from 100 pcs.		
	5 to 95 pcs.		
322921	GLV Plus (shipping unit: pack of 5 pcs.)	per p	oiece
	from 100 pcs.		
	5 to 95 pcs.		

ThanasiWit®



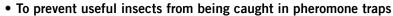
Pheromone to attract ant beetles (*Thanasimus sp.*): Pheromone to attract useful insects and to prevent them from being caught in pheromone traps!

Useful insects are important natural enemies of bark beetle species (e.g. European spruce bark beetle and six-toothed spruce bark beetle). The ThanasiWit® pheromone was specifically developed to attract useful insects in spruce forests. The messenger substance in ThanasiWit® attracts various ant beetle species (*Thanasimus formicarius*, *T. femoralis*) that have long been known as natural enemies of bark beetles. A series of tests has been carried out over several years and ThanasiWit® has proven to be very effective.

Use and application recommendations for ThanasiWit® in spruce forests:

 To attract ant beetles to (cleared) pockets of infestation and to log stacks to reduce bark beetle population

Place ThanasiWit® dispenser sheltered from weather conditions freely in target location, e.g. close to beetle nests or log stacks (e.g. with ThanasiWit®-Protect, see below). The useful insects attracted can help prevent bark beetles from infesting healthy trees and reduce the development of a next beetle generation in log stacks.



Pheromone traps may also attract and catch Thanasimus species. ThanasWit® can specifically be used to direct these natural enemies of bark beetles to a different location and, thus, prevent them from being caught in traps so that they still can act as useful insect in your forest. Freely place ThanasiWit® sheltered from weather conditions in target location (recommended installation: 2 to 7 metres into the stand, i.e. installation in the forest – measured from the edge of the forest).

- effective: approx. 8 to 10 weeks (depending on weather conditions)
- use from the start of bark beetle flight period
- Its use near traps, Trinet® P and log stacks has shown best results.
- Not for use in pine forests!



Ant beetle with preyed bark beetle

item no.	item	price	(in €)	
item no.	iteiii	excl. VAT	incl. VAT	
326911	ThanasiWit®	per piece		
	from 50 pcs.			
	1 to 49 pcs.			

ThanasiWit®-Protect



Protect the ThanasiWit® pheromone with ThanasiWit®-Protect



Install ThanasiWit® sheltered from weather conditions with ThanasiWit®-Protect!

• size: 20 cm x 8 cm x 8 cm

itom no	item	price (in €)		
item no.	iteiii	excl. VAT	incl. VAT	
319151	ThanasiWit®-Protect	per p	piece	
	1 pc.			

TRAP TYPES:

At the top left corner of the pictures below you will find abbreviations. These **abbreviations** are used in the table on the following pages **for the respective traps** (e.g. MW stands for MultiWit® Slit Trap).



MultiWit®
Bark Beetle Slit Trap
see page 63



WitaTrap®
Bark Beetle Slit Trap
see page 62



WitaTrap® Multi Funnel Trap see page 68



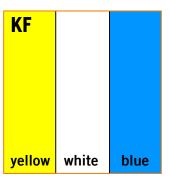
Wita®Prall
Cross-vane panel Trap
see page 69



WitaTrap® Funnel Trap see pages 138, 165



WitaTrap® Delta super see pages 138, 165



Colour panels (glue traps) see page 164

USEFUL INSECTS

	insect	name		pheromone			trap
lia.com			item no.	item	price (in €)	
- Foto	1	ant beetle	item no.	Tem .	excl. VAT	incl. VAT	ThanasiWit®
edzpe	Design	(Thanasimus sp.)	326911	ThanasiWit®	per p	iece	Protect
R. Sw		•		from 50 pcs.			(p. 75)
0				1 to 49 pcs.			

SPRUCE INSECTS

insect	name		pheromone			trap
		:4	·	price	(in €)	
	eight-toothed	item no.	item	excl. VAT	incl. VAT	MW WT WS
	spruce bark beetle (lps amitinus)	320611	Amitinuswit (pack of 5 pcs.)	per p	oiece	
	(ips amilinus)		from 100 pcs.			WS
© U.Schmidt 2006			5 to 95 pcs.			

	and the sector of the effective	item no.	item	price	(in €)	
0	northern bark beetle (Ips duplicatus)	iteiii iio.	iteiii	excl. VAT	incl. VAT	MW
13		322211	Dupliwit (pack of 5 pcs.)	per p	oiece	WT WS
San P			from 100 pcs.			WS
© BFW-Forstschutz			5 to 95 pcs.			

SPRUCE INSECTS (continued)

insect	name		pheromone			trap	
				price	(in €)		
		item no.	item	excl. VAT	incl. VAT		
-		323211	Ipsowit® FJ (spring) (pack of 5 pcs.) (see p. 72)	per	piece		
	European spruce bark beetle (Ips typographus)		from 100 pcs.				
U 1			5 to 95 pcs.			MW	
			Ipsowit® Standard (pack of 5 pcs.) (see p. 72)	per	piece	WT	
			from 100 pcs.			WS	
Calamida 2000			5 to 95 pcs.				
Schmidt 2006		324411	Pheroprax® Ampoule (see p. 72)	per	piece		
			from 50 pcs.				
			1 to 49 pcs.				
				price	(in €)		
4		item no.	item	excl. VAT	incl. VAT		
	six-toothed	321411	Chalcowit® (pack of 5 pcs.) (see p. 73)	per	piece		
	spruce bark beetle		from 100 pcs.			MW WT	
	(Pityogenes chalcographus)		5 to 95 pcs.			WS	
1	спасовтартизу	321211	Chalcoprax® Ampoule (see p. 73)	per	piece		
			from 50 pcs.				
Schmidt 2006			1 to 49 pcs.				
N 2 5	combined pheromone European spruce bark beetle (Ips typographus)			price	(in €)		
0		item no.	item	excl. VAT	incl. VAT		
7	+ six-toothed	323711	KombiWit® Tube – with long term effect effective: up to 20 weeks (see p. 74)	per	piece	MW WT WS	
	spruce bark beetle		from 100 pcs.			WS	
0.1	(Pityogenes chalcographus)		1 to 99 pcs.				
Schmidt 2006	спасовгарнизу		1 to 99 μcs.				
	•	ito	item no.	item	price (in €)		
		item no.	item	excl. VAT	incl. VAT		
	striped ambrosia beetle	325611	Trypowit (pack of 5 pcs.)	per	piece		
TEV.	(Trypodendron lineatum		from 100 pcs.			MW WT	
Mh.			5 to 95 pcs.			WS	
1		323821	Lineatin Kombi (pack of 5 pcs.)	per	piece		
Schmidt 2006	comined pheromone for Trypodendron species		from 100 pcs.				
	Trypodendron species		5 to 95 pcs.				
-				price	(in €)		
MEXIM		item no.	item	excl. VAT	incl. VAT		
	nun moth (Lymantria monacha)	324011	Lymowit (pack of 5 pcs.)		piece	FL	
CONTRACTOR!	(from 100 pcs.				
			5 to 95 pcs.	+			

FIR INSECTS

insect	name		pheromone			trap
		:4	:	price	(in €)	
	silver fir bark beetle	item no.	item	excl. VAT	incl. VAT	MW
	(Pityokteines curvidens)	321811	Curviwit® (pack of 5 pcs.)	per p	oiece	WT WS
40	-		from 100 pcs.			WS
© BFW-Forstschutz			5 to 95 pcs.			

PINE INSECTS

mans photometric	insect	name	pheromone	trap
------------------	--------	------	-----------	------

		item no.	item	price	(in €)	
	engraver beetle	itelli ilo.	iteiii	excl. VAT	incl. VAT	MW
	(Ips acuminatus)	320411	Acuwit® (pack of 5 pcs.)	per p	oiece	WT WS
			from 100 pcs.			WS
© U.Schmidt 2006			5 to 95 pcs.			

		item no.	itam	price	(in €)	
<u>O</u>	six-spined	item no.	item	excl. VAT	incl. VAT	MW
	engraver beetle (Ips sexdentatus)	324811	Sexowit® (pack of 5 pcs.)	per p	oiece	WT WS
	(ips sexueilialus)		from 100 pcs.			WS
© BFW-Forstschutz			5 to 95 pcs.			

		item no.	item	price	(in €)	
A	Mediterranean pine	itelli ilo.	iteiii	excl. VAT	incl. VAT	MW
	engraver beetle (Orthotomicus erosus)	322311	Erosowit® Tube (pack of 5 pcs.)	per p	oiece	WT WS
	(Orthotomicus erosus)		from 100 pcs.			WS
© BFW-Forstschutz			5 to 95 pcs.			

		item no.	item	price	(in €)	
	(common and lesser) pine shoot beetle	item no.	iteiii	excl. VAT	incl. VAT	
-	(Tomicus piniperda,	325211	Tomowit (pack of 5 pcs.)	per ¡	oiece	MW
	T. minor)		from 100 pcs.			
© BFW-Forstschutz			5 to 95 pcs.			

NEW FORMULATION:

long-horned beetle		item no.	item	price (in €)		
	item no.	item	excl. VAT	incl. VAT		
//m ()	(Monochamus galloprovincialis)	322621 Gallopro Pinowit (pack of 5 pcs.)		per p	oiece	WS
© U.Schmidt 2006			from 100 pcs.			
six-spined engraver beetle (Ips sexdentatus) Mediterranean pine engraver beetle (Orthotomicus erosus)			5 to 95 pcs.			
			in Portual and Spain have shown that catch rates for <i>M</i> and, in addition, catch rates for <i>Ips sexdentatus</i> , <i>Orthoto</i>			
	ed pine bark beetle urgus ligniperda)	, ,	igh. This is why the Gallopro Pinowit pheromone is exc		, ,	0 1

LARCH INSECTS

insect	name		pheromone					
N.		item no.	:	price (in €)				
	larch bark beetler		item	excl. VAT	incl. VAT	MW		
	(lps cembrae)	320811	Cembräwit (pack of 5 pcs.)	per piece		WT WS		
June.			from 100 pcs.			WS		
© U.Schmidt 2006			5 to 95 pcs.					

larch caseboare		item no. item	itam	price (in €)		DS
	larch casebearer		excl. VAT	incl. VAT		
-	(Coleophora laricella)	321611	Colowit (pack of 5 pcs.)	per p	oiece	KF
© BFW-Forstschutz			from 100 pcs.			
			5 to 95 pcs.			

INSECTS ON SPRUCE, LARCH, PINE, DOUGLAS FIR AND FIR

insect	name		pheromone					
1111				price (in €)				
	large pine weevil	item no.	item	excl. VAT	incl. VAT	Pine Weevil catching		
3	large pine weevil (Hylobius abietis)	322811	HyloWit® - Duration of action: 6-8 weeks	per p	oiece	tubet		
3	-		from 100 pcs.			(see p. 66)		
© U.Schmidt 2006			5 to 95 pcs.					

ORNAMENTAL PLANT (BOXWOOD, RED CEDAR, ETC.) INSECTS

insect	name		pheromone					
2/			price (in €)					
	box tree moth	item no.	item	excl. VAT	incl. VAT	DS		
	(Cydalima perspectalis)	362051	Cydawit (pack of 5 pcs.)	per p	oiece	Complete set		
THE REAL PROPERTY.			from 100 pcs.			(see p. 159)		
© unpict - Fotolia.com			5 to 95 pcs.					

BEECH INSECTS

insect	name		pheromone					
	European hardwood ambrosia beetle (Trypodendron domesticum)	item no. item		price (in €)				
			item	excl. VAT	incl. VAT	MW		
		323821	Lineatin Kombi (pack of 5 pcs.)	per p	per piece			
	combined pheromone for Trypodendron species		from 100 pcs.			WS		
1		•	5 to 95 pcs.					
© U.Schmidt 2006			"species specific pheromone Domowit-Trypo	wit D upon r	equest"			

OAK INSECTS

insect	name		pheromone			trap
7			*****	price	(in €)	
	oak pinhala harar	item no.	item	excl. VAT	incl. VAT	MW
	oak pinhole borer (Platypus cylindrus)	326611	Cilindriwit (pack of 5 pcs.)	per p	oiece	WT WS
1			from 100 pcs.			WS
© U.Schmidt 2006		5 to 95 pcs.				
101		item no.	o. item	price	(in €)	
	ambrosia beetle (Trypodendron signatum)	iteiii iio.		excl. VAT	incl. VAT	MW
1	323821	Lineatin Kombi (pack of 5 pcs.)	per p	oiece	WT WS	
A LA			from 100 pcs.			WS
combined pheromone for Trypodendron species		5 to 95 pcs.				
© U.Schmidt 2006	· · · · · · · · · · · · · · · · · · ·		"species specific pheromone Domowit-Tryp	owit D upon r	equest"	
		:4	item	price	(in €)	
Part 1		item no.	item	excl. VAT	incl. VAT	
	aineu meth	324011	Lymowit (pack of 5 pcs.)	per p	piece	FL
© BFW-Forstschutz	gipsy moth (Lymantria dispar)		from 100 pcs.			
© BFW-FOISISCHUIZ			5 to 95 pcs.			
3		:4	;a	price	(in €)	
winter moth (Operophtera brumata)	item no.	item	excl. VAT	incl. VAT	FL	
	361411	Operowit (pack of 5 pcs.)	per p	oiece	DS KF	
4)		from 100 pcs.			NΓ
© BFW-Forstschutz			5 to 95 pcs.			

OAK INSECTS (continued)

insect	name		pheromone				
-		9	price (in €)				
oak processionary moth	item no.	item	excl. VAT	incl. VAT			
The same of the sa	(Thaumetopoea	325011	Thaumatowit (pack of 2 pcs.)	per p	oiece	FL	
	processionea)		from 100 pcs.				
© BFW-Forstschutz			2 to 98 pcs.				

		item no.	item	price (in €)		
	green oak tortrix	iteiii iio.	iteiii	excl. VAT	incl. VAT	DS
0	(Tortrix viridana)	325411	Tortowit (pack of 5 pcs.)	per p	oiece	FL KF
© BFW-Forstschutz			from 100 pcs.			I KF
			5 to 95 pcs.			

CHESTNUT INSECTS

insect	name		pheromone			trap	
	chestnut leaf miner moth			price (in €)			
Stanto	(Cameraria ohridella)	item no.	item	excl. VAT	incl. VAT	DS KF	
05W5	WitaTrap® Complete Set package includes: 1 WitaTrap® Delta Super 2 pheromones (Camerariawit) 2 glue bases (to replace) 1 wire hanger description colour: white	360811	CamerariaWit® (see p. 168)	per p	oiece	, Kr	
© BFW-Forstschutz			from 50 pcs.				
				1 to 49 pcs.			
		361211	WitaTrap® Chestnut Leaf Miner Moth Complete Set (see p. 166)	per set		Complete Set	
		from 10 sets					
	Colour. Winte		1 to 9 sets				
	Chestnut Leaf Miner Moth Trap Sheet Set Complete set package includes: 6 trap sheets, 6 pheromones (Camerariawit), 1 can Soveurode Spray Glue 1 stapler incl. brackets	315141	Chestnut Leaf Miner Moth Trap Sheet Set (see p. 167)	per	set		
8			from 10 sets			C	
			1 to 9 sets			Complete Set	

VINE INSECTS

insect	name		pheromone			trap
	BEST PRICE		n	price	price (in €)	
	PRODUCT	item no.	item	excl. VAT	incl. VAT	KF
1	European grape	330411	Eupoewit (pack of 5 pcs.)	per p	oiece	DS
	berry moth (Eupoecilia ambiguella)		from 100 pcs.			
		(Eupoecilia ambiguella)		5 to 95 pcs.		
	BEST PRICE PRODUCT European	item no.	item	price	price (in €)	
				excl. VAT	incl. VAT	KF DS
			Lobewit (pack of 5 pcs.)	per i	per piece	
	grapevine moth		from 100 pcs.			Complete Set (see p. 163)
	(Lobesia botrana)		5 to 95 pcs.			
Luce	THE			price	price (in €)	
	BEST PRICE PRODUCT	item no.	item	excl. VAT	incl. VAT	
		331211	Nemapowit (pack of 5 pcs.)	per ı	piece	KF DS
AND PARTY.	cork moth (Nemapogon cloacella)		from 100 pcs.			1
The same of the sa	(Nernapogori cioacella)		E 1 0E			1

5 to 95 pcs.

ORCHARD INSECTS

insect	name		pheromone		trap	
IIISECT	Hame		pheromone		Пар	
				price (in €)		
400	BEST PRICE PRODUCT	item no.	item	excl. VAT incl. \	KF	
The same		342211	Pomowit (pack of 5 pcs.)	per piece	DS DS	
1000	codling moth (Cydia pomonella,	542211	from 100 pcs.	per piece	Complete Set	
	Laspeyresia)		5 to 95 pcs.		(see p. 163)	
	I					
				price (in €)		
1	BEST PRICE PRODUCT	item no.	item	excl. VAT incl. \	ΙΔΤ	
1	peach twig borer	340611	Anarowit (pack of 5 pcs.)	per piece	KF	
)		340011	from 100 pcs.	per piece	DS	
	(Anarsia lineatella)		5 to 95 pcs.			
		I				
				price (in €)		
100	BEST PRICE PRODUCT	item no.	item	excl. VAT incl. \	/ΔΤ	
		341011	Enarowit (pack of 5 pcs.)	per piece	KF DS	
A STORY	cherry bark tortrix (Enarmonia formosana)	cherry bark tortrix	0.1011	from 100 pcs.	per piece	DS
	(Enamionia ionnosana)		5 to 95 pcs.			
		1	-		'	
				price (in €)		
	BEST PRICE PRODUCT	item no.	item	excl. VAT incl. \	KF	
	plum fruit moth (Grapholita funebrana)	341211	Grapowit (pack of 5 pcs.)	per piece	DS DS	
		541211	from 100 pcs.	per piece	Complete Set	
			5 to 95 pcs.		(see p. 163)	
		I				
				price (in €)		
1	BEST PRICE PRODUCT	item no.	item	excl. VAT incl. \	/AT	
The same of the sa		341411	Molestawit (pack of 5 pcs.)	per piece	KF DS	
1	oriental fruit moth (Grapholita molesta)	0.1.11	from 100 pcs.	per prese	DS	
	(drapholita molesta)		5 to 95 pcs.			
				1	'	
2				price (in €)		
MI		item no.	item	excl. VAT incl. V	/AT	
Siller Alling	winter moth (Operophtera brumata)	361411	Operowit (pack of 5 pcs.)	per piece	FL DS	
4	(operopmera zramata)		from 100 pcs.		KF	
© BFW-Forstschutz			5 to 95 pcs.			
	PEST PRICE	ita	:1	price (in €)		
- Land	BEST PRICE PRODUCT	item no.	item	excl. VAT incl. \	/AT DS	
AND A	obowy for it flor	340761	Cerasiwit pack of 5 pcs.)	per piece		
1	cherry fruit fly (Rhagoletis cerasi)		from 100 pcs.		complete Set (see p. 163)	
© entomart	_		5 to 95 pcs.			
	Ī					
	BEST PRICE	item no.	item	price (in €)	KF	
1	BEST PRICE PRODUCT			excl. VAT incl. \	DS DS	
2	- AD	340711	Completawit (pack of 5 pcs.)	per piece	Complete Set	
1			from 100 pcs.		(see p. 163)	
			5 to 95 pcs.			

CORN INSECTS

insect	name		pheromone				
	Western corn root worm		******	price	(in €)		
	(Diabrotica virgifera)	item no.	item no. item	excl. VAT	incl. VAT		
_		350811	Virgiwit – attracts only the males (pack of 5 pcs.)	per piece			
V.			from 100 pcs.			KF	
1			5 to 95 pcs.				
		351011	Virgiwit Plus – attracts males and females (pack of 5 pcs.)	per piece			
			from 100 pcs.				
	70		5 to 95 pcs.				

FOOD INSECTS

insect	name		pheromone			
V	combined pheromone	:tam ma	item	price	(in €)	
© unpict - Fotolia.com	food moths – flour moth (Ephestia kuehniella) Indianmeal moth	item no.	item	excl. VAT	incl. VAT	DC
		370811	Ephestowit (pack of 5 pcs.)	per p	oiece	DS FL
			from 100 pcs.			
		5 to 95 pcs.				

WOOD INSECTS

insect	name		pheromone			trap
XX		: !	:1	price	(in €)	
	old house borer (Hylotrupes bajulus)	item no.	item	excl. VAT	incl. VAT	DS
		380411	Bajuluwit – attracts the females	per p	oiece	FL
) 💗 (from 100 pcs.			
© U.Schmidt 2006			1 to 99 pcs.			

You can find a detailed decription of Bajuluwit on page 169 or on our website.



QUARANTINE PESTS

insect	name		pheromone				
		item no.	item	price	(in €)		
\sim	Asian long-horned beetle	item no.	iteiii	excl. VAT	incl. VAT		
	(Anoplophora glabripennis)	361511	Glabriwit Pro – effective: 60 days (shipping unit: 1 pack = 2 units à 3 ampoules)	per ¡	oack	WP	
			from 1 pack				

This is only a selection of our pheromone products. Please contact us if you need other pheromones than the ones listed in our catalogue.

PESTS LISTED IN ALPHABETICAL ORDER ACCORDING TO ENGLISH COMMON NAME

LESIS FISIED IN ATLA	ABETICAL URDER ACCUR		IGLISH CUMIMUI	NINAIVIE
English common name	scientific name	plant	pheromone	page
ambrosia beetle	Trypodendron signatum	oak	Lineatin Kombi	79
apple clearwing moth	Synanthedon myopaeformis	apple	Myopaewit	on order
asian long-horned beetle	Anoplophora glabripennis	broadleaf	Glabriwit Pro	82
barred fruit tree tortrix moth	Pandemis cerasana, P. ribeana	apple	Ribowit	on order
box tree moth	Cydalima perspectalis	boxwod	Cydawit	79
brown marmorated stink bug	Halyomorpha halys	polyphage type	Halyowit Dispenser	on order
cherry bark tortrix	Enarmonia formosana	cherry	Enarowit	81
cherry fruit fly	Rhagoletis cerasi	cherry	Cerasiwit	81
chestnut leaf miner moth	Cameraria ohridella	chestnut	Camerariawit	80
codling moth	Cydia pomonella (Laspeyresia)	apple	Pomowit	81
cork moth	Nemapogon cloacella	vine	Nemapowit	80
cotton moth, cotton bollworm	Heliothis armigera	vegetable and fruit	Heliowit	on order
currant clearwing moth	Synanthedon tipuliformis	fruit	Tipuliwit	on order
cypress bark beetle (juniper bark beetle)	Phloeosinus aubei	red cedar, juniper	Aubeiowit Plus	on order
eight-toothed spruce bark beetle	Ips amitinus	spruce	Amitinuswit	76
engraver beetle	Ips acuminatus	pine	Acuwit®	78
European grape berry moth	Eupoecilia ambiguella	vine	Eupoewit	80
European grapevine moth	Lobesia botrana	vine	Lobewit	80
European hardwood ambrosia beetle	Trypodendron domesticum	beech	Lineatin Kombi	79
European spruce bark beetle (eigth-spined engraver beetle)	lps typographus	spruce	Ipsowit® Standard, Ipsowit FJ Pheroprax®, KombiWit® Tube	72, 75, 77
eye-spotted bud moth	Spilonota ocellana	apple	Spilowit	on order
food moths (flour moth & Indianmeal moth)	Ephestia kuehniella (Anagasta k.) and Plodia interpunctella	food	Ephestowit	82
forest cockchafer, common cockchafer	Melolontha hippocastani, M. melolontha	oak	Melowit	on order
gipsy moth (and nun moth)	Lymantria dispar	oak	Lymowit	79
goat moth	Cossus cossus	willow	Cossuwit	on order
green oak tortrix	Tortrix viridana	oak	Tortowit	80
larch bark beetle	Ips cembrae	larch	Cembräwit	78
larch bud moth (and pine shoot moth)	Zeiraphera diniana	larch	Rhyowit	on order
larch casebearer	Coleophora laricella	larch	Colowit	78
leopard moth	Zeuzera pyrina	fruit	Zeuzerowit	on order
long-horned beetle (and others)	Monochamus galloprovincialis (and others)	pine	Gallopro Pinowit	78
Mediterranean pine engraver beetle	Orthotomicus erosus	pine	Erosowit® Tube, Gallopro Pinowit	78
northern bark beetle	Ips duplicatus	spruce	Dupliwit	76
nun moth (and gipsy moth)	Lymantria monacha (L. dispar)	spruce	Lymowit	77
oak pinhole borer	Platypus cylindrus	oak	Cilindriwit	79
oak processionary moth	Thaumetopea prozessionea	oak	Thaumatowit	80
old house borer	Hylotrupes bajulus	wood	Bajuluwit	82
oriental fruit moth	Grapholita molesta	peach	Molestawit	81
pea moth	Cydia nigricana	peacii	Nigriwit	on order
peach twig borer	Anarsia lineatella	peach	Anarowit	82
pine beauty moth	Panolis flammea	pine	Panowit	on order
pine sawfly	Diprion pini	pine	Dipowit	on order
(common and lesser) pine shoot beetle	Tomicus piniperda, T. minor	pine	Tomowit	78
pine shoot moth (and larch bud moth)	Rhyacionella buoliana	pine, larch	Rhyowit	on order
plum fruit moth	Grapholita funebrana	plum	Grapowit	81
red palm weevil	Rhynchophorus ferrugineus	palm	Ferrowit	on order
red-haired pine bark beetle	Hylurgus ligniperda	pine	Ligniwit Tube, Gallopro Pinowit	78
silver fir bark beetle	Pityokteines curvidens	fir	Curviwit®	77
six-spined engraver beetle	Ips sexdentatus	pine	Sexowit®, Gallopro Pinowit	77
six-toothed spruce bark beetle	Pityogenes chalcographus	spruce	Chalcowit®, Chalcoprax® Ampoule, KombiWit® Tube	73, 75, 78
strined ambrosia heetle	Trypodendron lineatum	· ·		77
striped ambrosia beetle	Trypodendron lineatum	spruce	Trypowit, Lineatin Kombi	
summer fruit tortrix moth or apple brown tortrix	Adoxophyes orana	apple	Adoxowit	on order
walnut husk fly	Rhagoletis completa	walnut family	Completawit	81
western corn root worm	Diabrotica virgifera	corn	Virgiwit, Virgiwit Plus	82
winter moth	Operophtera brumata	oak	Operowit	81

PESTS LISTED IN	ALPHABETICAL ORDER /	ACCORDING	TO SCIENTIFIC	NAME
scientific name	English common name	plant	pheromone	page
Adoxophyes orana	summer fruit tortrix moth or apple brown tortrix	apple	Adoxowit	on order
Anarsia lineatella	peach twig borer	peach	Anarowit	81
Anoplophora glabripennis	asian long-horned beetle	broadleaf	Glabriwit Pro	82
Cameraria ohridella	chestnut leaf miner moth	chestnut	Camerariawit	80
Coleophora laricella	larch casebearer	larch	Colowit	78
Cossus cossus	goat moth	willow	Cossuwit	on order
Cydalima perspectalis	box tree moth	boxwod	Cydawit	79
Cydia nigricana	pea moth	pea	Nigriwit	on order
Cydia pomonella (Laspeyresia)	codling moth	apple	Pomowit	81
Diabrotica virgifera	Western corn root worm	corn	Virgiwit, Virgiwit Plus	82
Diprion pini	pine sawfly	pine	Dipowit	on order
Enarmonia formosana	cherry bark tortrix	cherry	Enarowit	81
Ephestia kuehniella (Anagasta k.) and Plodia interpunctella	food moths (flour moth & Indianmeal moth)	food	Ephestowit	82
Eupoecilia ambiguella	European grape berry moth	vine	Eupoewit	80
Grapholita funebrana	plum fruit moth	plum	Grapowit	81
Grapholita molesta	oriental fruit moth	peach	Molestawit	81
Halyomorpha halys	brown marmorated stink bug	polyphage type	Halyowit Dispenser	on order
Heliothis armigera	cotton moth, cotton bollworm	vegetable and fruit	Heliowit	on order
Hylotrupes bajulus	old house borer	wood	Bajuluwit	82
Hylurgus ligniperda	red-haired pine bark beetle	pine	Ligniwit Tube	78
Ips acuminatus	engraver beetle	pine	Acuwit®	78
Ips amitinus	eight-toothed spruce bark beetle	spruce	Amitinuswit	76
Ips cembrae	larch bark beetle	larch	Cembräwit	78
Ips duplicatus	northern bark beetle	spruce	Dupliwit	76
Ips sexdentatus	six-spined engraver beetle	pine	Sexowit®, Gallopro Pinowit	78
Ips typographus	European spruce bark beetle (eigth-spined engraver beetle)	spruce	Ipsowit® Standard, Pheroprax®, KombiWit® Tube	72, 75, 77
Lobesia botrana	European grapevine moth	vine	Lobewit	80
Lymantria dispar	gipsy moth (and nun moth)	oak	Lymowit	79
Lymantria monacha (L. dispar)	nun moth (and gipsy moth)	spruce	Lymowit	77
, , , , , , , , , , , , , , , , , , , ,			-	
Melolontha hippocastani, M. melolontha	forest cockchafer, common cockchafer	oak .	Melowit	on order
Monochamus galloprovincialis (and others)	long-horned beetle (and others)	pine .	Gallopro Pinowit	78
Nemapogon cloacella	cork moth	vine	Nemapowit	80
Operophtera brumata	winter moth	oak	Operowit	81
Orthotomicus erosus	Mediterranean pine engraver beetle	pine	Erosowit Tube, Gallopro Pinowit	78
Pandemis cerasana, P. ribeana	barred fruit tree tortrix moth	apple	Ribowit	on order
Panolis flammea	pine beauty moth	pine	Panowit	on order
Phloeosinus aubei Pityogenes chalcographus	cypress bark beetle (juniper bark beetle) six-toothed spruce bark beetle	red cedar, juniper	Aubeiowit Plus Chalcowit®, Chalcoprax®	on order 73, 75, 78
	· ·	<u> </u>	Ampoule, KombiWit® Tube	
Pityokteines curvidens	silver fir bark beetle	fir oak	Curviwit® Cilindriwit	77 79
Platypus cylindrus Rhagoletis cerasi	oak pinhole borer cherry fruit fly		Cerasiwit	81
Rhagoletis completa	walnut husk fly	cherry walnut family	Completawit	81
Rhyacionella buoliana	pine shoot moth (and larch bud moth)	pine, larch	Rhyowit	on order
Rhynchophorus ferrugineus	red palm weevil	palm	Ferrowit	on order
Spilonota ocellana	eye-spotted bud moth	apple	Spilowit	on order
Synanthedon myopaeformis	apple clearwing moth	apple	Myopaewit	on order
Synanthedon tipuliformis	currant clearwing moth	fruit	Tipuliwit	on order
Thaumetopea prozessionea	oak processionary moth	oak	Thaumatowit	80
Tomicus piniperda, T. minor	(common and lesser) pine shoot beetle	pine	Tomowit	78
Tortrix viridana	green oak tortrix	oak	Tortowit	80
Trypodendron domesticum	European hardwood ambrosia beetle	beech	Lineatin Kombi	79
Trypodendron lineatum	striped ambrosia beetle	spruce	Trypowit, Lineatin Kombi	77
Trypodendron signatum	ambrosia beetle	oak	Lineatin Kombi	79
Zeiraphera diniana	larch bud moth (and pine shoot moth)	larch	Rhyowit	on order
Zeuzera pyrina	leopard moth	fruit	Zeuzerowit	on order
	- sopara moti	ii uit	Loazoromit	on order

LE212 F	ISTED IN ALPHABET <u>ica</u>	L ORDER ACCORDING	TO PLANTS	
plant	English common name	scientific name	pheromone	page
pple	apple clearwing moth	Synanthedon myopaeformis	Myopaewit	on order
pple	barred fruit tree tortrix moth	Pandemis cerasana, P. ribeana	Ribowit	on order
pple	codling moth	Cydia pomonella (Laspeyresia)	Pomowit	81
pple	eye-spotted bud moth	Spilonota ocellana	Spilowit	on order
pple	summer fruit tortrix moth or apple brown tortrix	Adoxophyes orana	Adoxowit	on order
peech	European hardwood ambrosia beetle	Trypodendron domesticum	Lineatin Kombi	79
ooxwood	box tree moth	Cydalima perspectalis	Cydawit	79
oroadleaf	asian long-horned beetle	Anoplophora glabripennis	Glabriwit Pro	82
cherry	cherry bark tortrix	Enarmonia formosana	Enarowit	81
			Cerasiwit	81
cherry	cherry fruit fly	Rhagoletis cerasi	+	
chestnut	chestnut leaf miner moth	Cameraria ohridella	Camerariawit	80
corn	Western corn root worm	Diabrotica virgifera	Virgiwit, Virgiwit Plus	82
ir	silver fir bark beetle	Pityokteines curvidens	Curviwit®	77
ood	food moths (flour moth & Indianmeal moth)	Ephestia kuehniella (Anagasta k.) and Plodia interpunctella	Ephestowit	82
ruit	currant clearwing moth	Synanthedon tipuliformis	Tipuliwit	on order
fruit	leopard moth	Zeuzera pyrina	Zeuzerowit	on order
larch	larch bark beetle	Ips cembrae	Cembräwit	78
arch	larch bud moth (and pine shoot moth)	Zeiraphera diniana	Rhyowit	on order
arch	larch casebearer	Coleophora laricella	Colowit	78
oak	ambrosia beetle	Trypodendron signatum	Lineatin Kombi	79
oak	forest cockchafer, common cockchafer	Melolontha hippocastani, M. melolontha	Melowit	on order
oak	gipsy moth (and nun moth)	Lymantria dispar (and L. monacha)	Lymowit	79
oak	green oak tortrix	Tortrix viridana	Tortowit	80
oak	oak pinhole borer	Platypus cylindrus	Cilindriwit	79
	<u> </u>	1		
oak	oak processionary moth	Thaumetopea prozessionea	Thaumatowit	80
oak	winter moth	Operophtera brumata	Operowit	81
oalm	red palm weevil	Rhynchophorus ferrugineus	Ferrowit	on order
oea	pea moth	Cydia nigricana	Nigriwit	on order
peach	oriental fruit moth	Grapholita molesta	Molestawit	81
peach	peach twig borer	Anarsia lineatella	Anarowit	81
pine	(common and lesser) pine shoot beetle	Tomicus piniperda, T. minor	Tomowit	78
oine	engraver beetle	Ips acuminatus	Acuwit®	78
pine	long-horned beetle (and others)	Monochamus galloprovincialis (and others)	Gallopro Pinowit	78
oine	Mediterranean pine engraver beetle	Orthotomicus erosus	Erosowit Tube	78
oine	pine beauty moth	Panolis flammea	Panowit	on order
oine	pine sawfly	Diprion pini	Dipowit	on order
oine	red-haired pine bark beetle	Hylurgus ligniperda	Ligniwit Tube®	78
oine	six-spined engraver beetle	Ips sexdentatus	Sexowit®, Gallopro Pinowit	78
oine, larch	pine shoot moth (and larch bud moth)	Rhyacionella buoliana	Rhyowit	on order
	plum fruit moth	Grapholita funebrana	Grapowit	81
plum 			· ·	
oolyphage type	brown marmorated stink bug	Halyomorpha halys	Halyowit Dispenser	on order
ed cedar, juniper	cypress bark beetle (juniper bark beetle)	Phloeosinus aubei	Aubeiowit Plus	on order
spruce	eight-toothed spruce bark beetle	Ips amitinus	Amitinuswit	76
spruce	European spruce bark beetle (eigth-spined engraver beetle)	Ips typographus	Ipsowit® Standard, Ipsowit® FJ, Pheroprax®, KombiWit® Tube	72, 75, 7
spruce	northern bark beetle	Ips duplicatus	Dupliwit	76
spruce	nun moth (and gipsy moth)	Lymantria monacha (L. dispar)	Lymowit	77
spruce	six-toothed spruce bark beetle	Pityogenes chalcographus	Chalcowit®, Chalcoprax® Ampoule, KombiWit® Tube	73, 75, 78
spruce	striped ambrosia beetle	Trypodendron lineatum	Lineatin Kombi	77
regetable and fruit	· ·	Heliothis armigera	Heliowit	on order
	<u> </u>			
vine	cork moth	Nemapogon cloacella	Nemapowit	80
vine	European grape berry moth	Eupoecilia ambiguella	Eupoewit	80
vine	European grapevine moth	Lobesia botrana	Lobewit	80
valnut family	walnut husk fly	Rhagoletis completa	Completawit	81
willow	goat moth	Cossus cossus	Cossuwit	on order
wood	old house borer	Hylotrupes bajulus	Bajuluwit	82