

PHEROMONES²⁰²⁴ AND TRAPS

witasek – Care for your forest and vines – Increase the value!

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Pheromones

European spruce bark beetle: Ipsowit [®] FJ and Standard, Pheroprax [®] Ampoule, KombiWit [®] Tu Six-toothed spruce bark beetle: Chalcowit [®] , Chalcoprax [®] Ampoule, KombiWit [®] Tube	•
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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.

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

Mass trapping measures do always have to be accompanied by other precautions: Check standing trees for infestations, remove fallen timber (bark beetle habitat) immediately!



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!

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).



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**.

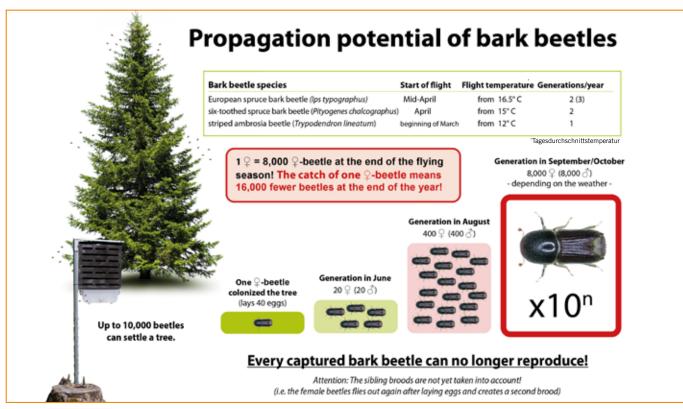
Depending on the pest species, Witasek uses a mixture of highly pure pheromones and kairomones that ensure excellent catch results!

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



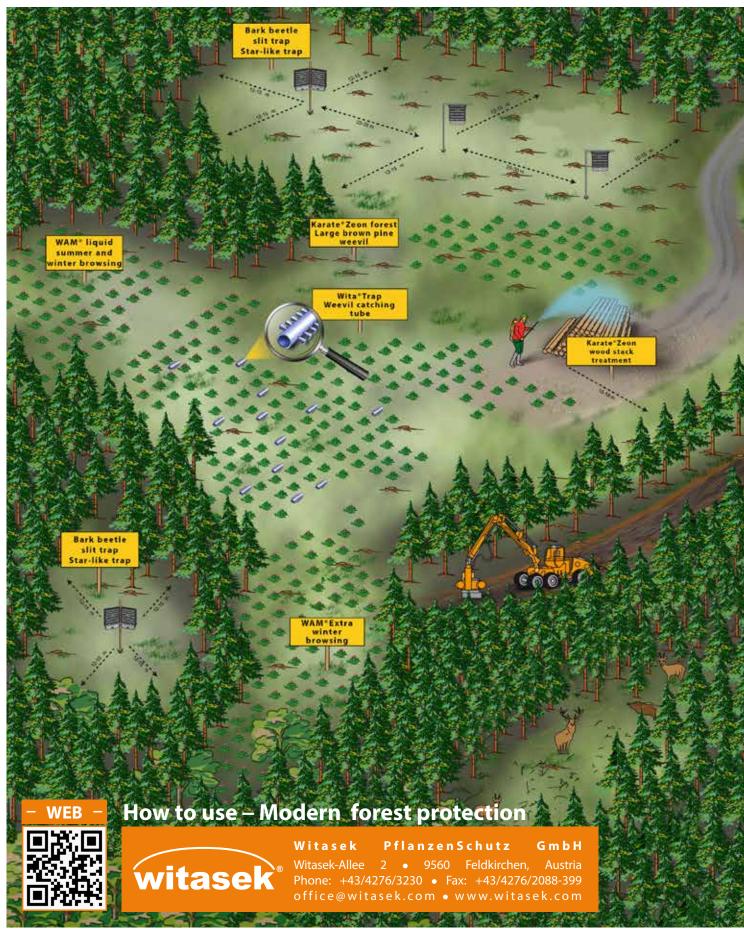
size: 4.2 to 5.5 mm



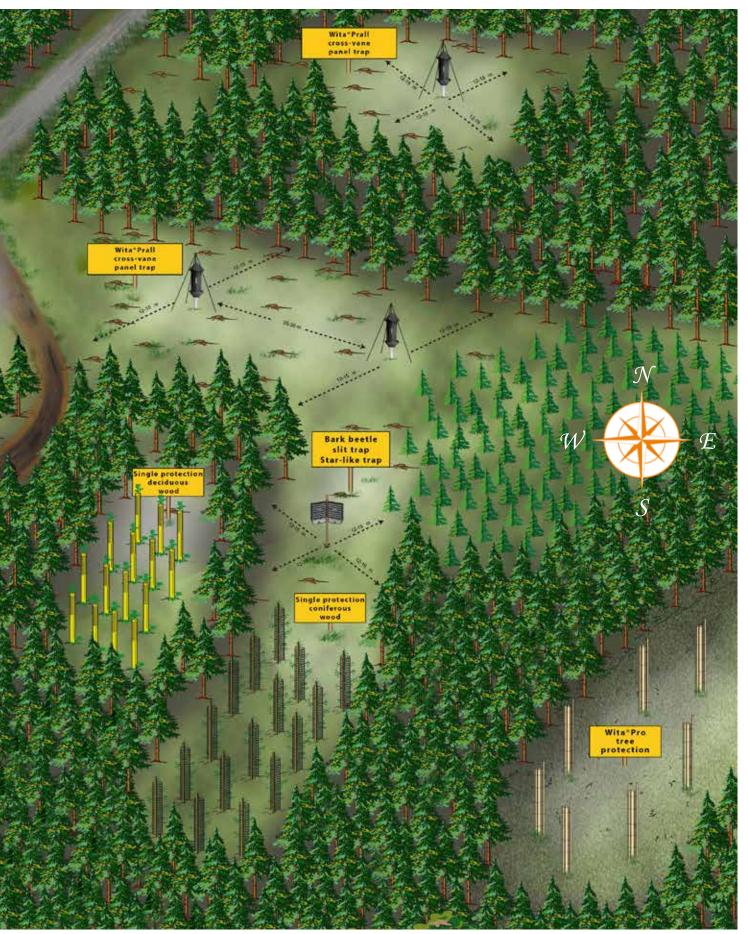
size: 1.6 to 2.9 mm



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



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



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

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

- 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

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

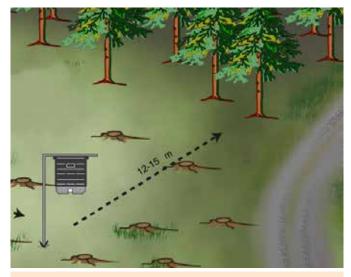
of rain water.

- 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)

itom no	item	price	(in €)
item no.	item	excl. VAT	incl. VAT
314031	WitaTrap® Bark Beetle Slit Trap (without stayer) (6 pieces/box)	per piece	
	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



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

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

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.	item	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

AntiSmell Trap Salt is a natural, inorganic product that, when used in trapping systems with catch liquids, prevents the release of pheromones (messenger substances) deterring other bark beetles and deodorises the smell of decaying beetles caught in traps.

MultiWit® Trap-Tub and Wita® Universal Capture Container

Trap Salt for wet trapping bark beetles with the

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

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

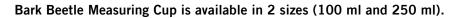


This is how it's done: First, cut off the upper corner. Then pour the salt next to the rain gutter into the collecting container or into a container with 700 ml of water and mix. Then cut off the bottom of the bag and use the bag as a funnel.

Bark Beetle Measuring Cup

To easily count the beetles caught





catch number conversion:

- 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

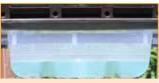
item no.	item		(in €)
item no.	item	excl. VAT	incl. VAT
315851	Bark Beetle Measuring Cup – 100 ml	per piece	
	from 10 pcs.		
	1 to 9 pcs.		
315861	Bark Beetle Measuring Cup – 250 ml	per piece	
	from 10 pcs.		
	1 to 9 pcs.		



MultiWit[®] Trap-Tub for Bark Beetle Slit Traps



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.



For dry trapping: 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)

itom no	item	price (in €)	
item no.		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-saltsolution (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	price (in €)	
item no.	item	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 piece	
	from 10 pcs.		
	1 to 9 pcs.		



Plug Cap for MultiWit[®] Trap-Tub

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



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

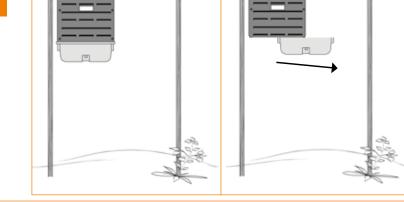
- standard trap-tub (excl. funnel) for dry trapping methods
- welded-in steel strainers prevent the catched beetles from escape.

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

Insect traps – Bark beetle slit traps and accessories

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**.

- complete with connectors and anchoring cable
- dip treated for rust prevention
- Although three traps are used, only **one pheromone dispenser** is required.
- attracting effect of 360°
- The height is adjustable.





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

item no.	no. item		(in €)
item no.			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.		price	price (in €)	
	item	excl. VAT	incl. VAT	
310641	WitaTrap [®] Multi Funnel Trap – 5 segemnts + 1 incl. Wita [®] Universal Capture Container (5 pieces/box)	per p	biece	
	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 ı	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.	item	price (in €)	
		excl. VAT	incl. VAT
315631	Wita®Prall Cross-vane panel trap (5 pieces/box)	per p	oiece
	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**

designed for the WitaTrap[®] Multi Funnel Trap and Wita®Prall Crossvane panel Trap





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.

Bayonet lock with safety lock

Technical data:

- capacity: 1,000 ml before overflow
- caterial: PP (polypropylene)
- UV-stabilised

Dimensions:

The bayonet lock facilitates maintenance work and

- height: 27 cm
- diameter with bayonet ring: 102 mm
- weight incl. lid: 170 g

provides for an optimal hold of the Capture Container even in







windy locations. Wet and dry trapping method Cambered stainless steel sieves on the outflow (at the bot-

tom) and on both side overflows enable excess water to run off properly. The finely woven net structure prevents insects from escaping. The stainless-steel sieves are very durable and dimensionally stable.

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.

item no.	:te	price	(in €)
item no.	no. item	excl. VAT	incl. VA
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-	Products	
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	ickage
	from 10 packs		
	1 to 9 packs		





Retrofit accessories: Adapter for Wita®Prall Cross-vane panel Trap



Hooks for Adapter Wita®Prall Cross-vane panel Trap

Various traps

SERVICE

PRODUCT

Universal Trap Stand





Scope of delivery without trap

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



item no.	item	price (in €)	
		excl. VAT	incl. VAT
315951	Universal Trap Stand shipping unit: 1 Universal Trap Stand incl.pegs	per p	oiece
	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

itom no	item	price (in €)	
item no.		excl. VAT	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 (*lps 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	price (in €)	
		excl. VAT	incl. VAT	
323211	Ipsowit [®] FJ (spring) (pack of 5 pcs.)	per	piece	
	from 100 pcs.			
	5 to 95 pcs.			
323411	Ipsowit [®] Standard (pack of 5 pcs.)	per	piece	
	from 100 pcs.			
	5 to 95 pcs.			

Pheroprax[®] Ampoule

Pheromone to attract European spruce bark beetle

(lps 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.	item	price (in €)	
		excl. 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 €)	
	nem	excl. 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.	item	price (in €)	
		excl. 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 (*Ips 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 €)
item no.	nem	excl. VAT	incl. VAT
323711	KombiWit [®] Tube – with long term effect	per p	oiece
	from 100 pcs.		
	1 to 99 pcs.		

UNIVERSAL ATTRACTANTS

HostoWit[®] Plus



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. item	itam	price (in €)		
item no.	nem	excl. VAT	incl. VAT	
322911	HostoWit® Plus (shipping unit: pack of 5 pcs.)	per p	piece	
	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.			

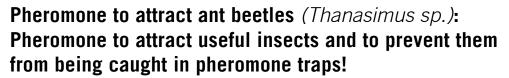




ThanasiWit®







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.

To prevent useful insects from being caught in pheromone traps

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!

• size: 20 cm x 8 cm x 8 cm

1 pc.

ThanasiWit®-Protect

item no.

319151

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

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

item

ThanasiWit[®]-Protect

Ant beetle with preyed bark

beetle

Protect the ThanasiWit® pheromone with ThanasiWit[®]-Protect



price (in €)

per piece

excl. VAT



- 75 -

incl. VAT

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[®] Funnel Trap see pages 138, 165

USEFUL INSECTS



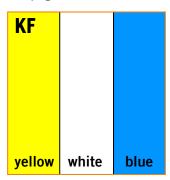
WitaTrap® Bark Beetle Slit Trap see page 62



WitaTrap[®] Delta super see pages 138, 165



WitaTrap[®] Multi Funnel Trap see page 68



Colour panels (glue traps) see page 164



Wita®Prall Cross-vane panel Trap see page 69

insect	insect name		pheromone				
ia.com		item no.	item	price	(in €)		
- Foto	ant beetle (Thanasimus sp.)	item no.		excl. VAT	incl. VAT	ThanasiWit®	
adzba		326911	ThanasiWit®	per p	Jiece	Protect	
S. S.			from 50 pcs.			(p. 75)	
N N			1 to 49 pcs.			1	

SPRUCE INSECTS

insect	name		pheromone			trap	
1		item ne	item	price (in €			
	eight-toothed	item no.	item	excl. VAT	incl. VAT	MW	
	spruce bark beetle	320611	Amitinuswit (pack of 5 pcs.)	per	biece	WT WS	
	(Ips amitinus)	(<i>ips annunus</i>) from 100 pcs.	from 100 pcs.			W3	
U.Schmidt 2006			5 to 95 pcs.				
			:t	price	(in €)		
northern bark beetle (Ips duplicatus)		Item	excl. VAT	incl. VAT	мw		
		322211	Dupliwit (pack of 5 pcs.)	per p	piece	WT WS	
100			from 100 pcs.			W5	

5 to 95 pcs.

© BFW-Forstschutz

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)			
A.						
N.C.	European		5 to 95 pcs.			MW
	spruce bark beetle	323411	Ipsowit [®] Standard (pack of 5 pcs.) (see p. 72)	per	piece	WT
	(Ips typographus)		from 100 pcs.			WS
© U.Schmidt 2006			5 to 95 pcs.			
© 0.001111102 2000		324411	Pheroprax [®] Ampoule (see p. 72)	excl. VAT per pic i	piece	
			from 50 pcs.			
			1 to 49 pcs.			
				price	(in €)	
· ·		item no.	item	excl. VAT	incl. VAT	
V	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 Carl	chalcographus)	321211	Chalcoprax [®] Ampoule (see p. 73)	per	piece	
			from 50 pcs.			
© U.Schmidt 2006			1 to 49 pcs.			
	combined pheromone		$\begin{array}{ c c c } \hline \begin{tabular}{ c c c } \hline \begin{tabular}{ c c c } \hline \begin{tabular}{ c c } \hline \hline $			
	European spruce bark beetle	item no.	item			
	(lps typographus)	323711		exci. VAI	INCI. VAI	MW
	+ six-toothed spruce bark beetle (Pityogenes chalcographus)	525/11		per	piece WT	WT
		-				
© U.Schmidt 2006			· · · · · · · · · · · · · · · · · · ·			
		item no.	itom	price	(in €)	
	striped ambrosia beetle	item no.	item	excl. VAT	incl. VAT	
V		325611	Trypowit (pack of 5 pcs.)	per	piece	MW WT
	(Trypodendron lineatum		from 100 pcs.			
			5 to 95 pcs.			WS
1 The second		323821	Lineatin Kombi (pack of 5 pcs.)	per	piece	
© U.Schmidt 2006	comined pheromone for Trypodendron species		from 100 pcs.			
	, , , , , , , , , , , , , , , , , , ,		5 to 95 pcs.			
-				nrice	(in €)	
TAXE.		item no.	item			
the start	nun moth	324011	Lymowit (pack of 5 pace)			FL
ater shale	(Lymantria monacha)	524011		per	piece	
© BFW-Forstschutz						
			5 to 35 pcs.			
FIR INS	ECTS					
insect	name		pheromone			trap
				price	(in €)	
	silver fir bark beetle	item no.	item	excl. VAT	incl. VAT	MW
ALC: NO						WT
		321811	Curviwit [®] (pack of 5 pcs.)	ner	piece	
	silver fir bark beetle (Pityokteines curvidens)	321811	Curviwit [®] (pack of 5 pcs.) from 100 pcs.	per	piece	WT WS

PINE INSECTS

insect	name		pheromone			trap
1			1	price	(in €)	
YAY		item no.	item	excl. VAT	incl. VAT	мм
T	engraver beetle (lps acuminatus)	320411	Acuwit [®] (pack of 5 pcs.)	per p	piece	WT
NBA			from 100 pcs.			WS
© U.Schmidt 2006			5 to 95 pcs.			
	'					
				price	(in €)	
0.	six-spined	item no.	item	excl. VAT	incl. VAT	MW
11	engraver beetle	324811	Sexowit [®] (pack of 5 pcs.)	per p	piece	WT
1998 (M	(lps sexdentatus)		from 100 pcs.			WS
© BFW-Forstschutz			5 to 95 pcs.			
				· ·		
		:t	:	price	(in €)	
A	Mediterranean pine	item no.	item	excl. VAT	incl. VAT	мм
118	engraver beetle	322311	Erosowit [®] Tube (pack of 5 pcs.)	per p	piece	WT
V-H-Y	(Orthotomicus erosus)		from 100 pcs.			WS
© BFW-Forstschutz			5 to 95 pcs.			

AND SI		itam na	:10	price	(in €)	
	(common and lesser) pine shoot beetle	item no.	item	excl. VAT	incl. VAT	
224	(Tomicus piniperda,	325211	Tomowit (pack of 5 pcs.)	per p	piece	MW
	T. minor)		from 100 pcs.			
© BFW-Forstschutz			5 to 95 pcs.			

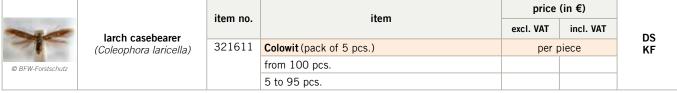
NEW FORMULATION:

λ		:	:4	price	(in €)	
(\mathbf{x},\mathbf{z})	long-horned beetle	item no.	item	excl. VAT	incl. VAT	
()()	(Monochamus galloprovincialis)	322621	Gallopro Pinowit (pack of 5 pcs.)	per piece		WS
© U.Schmidt 2006	ganoprovincians)	from 100 pcs.				
	ed engraver beetle		5 to 95 pcs.			
(Ips sexdentatus) Mediterranean pine engraver beetle (Orthotomicus erosus)		in Portual and Spain have shown that catch rates for <i>M</i> and, in addition, catch rates for <i>Ips sexdentatus, Orthoto</i>				
red-haire	ed pine bark beetle		igh. This is why the Gallopro Pinowit pheromone is exe			

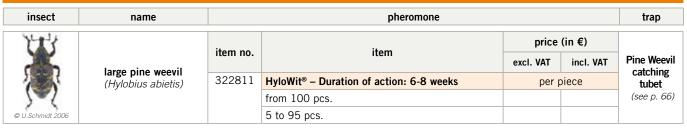
red-haired pine bark beetle (Hylurgus ligniperda)

LARCH INSECTS

insect	name		pheromone	pheromone			
YN'		item no.	pr		(in €)		
		item no.	item	excl. VAT	incl. VAT	MW WT WS	
	(lps cembrae)	(lps cembrae) 320811	Cembräwit (pack of 5 pcs.)	per p	piece		
AURA			from 100 pcs.			W3	
© U.Schmidt 2006			5 to 95 pcs.				



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



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

insect	name		pheromone			trap
		:t	:1	price	(in €)	
	box tree moth	item no.	item	excl. VAT	incl. VAT	DS
	(Cydalima perspectalis)	362051	Cydawit (pack of 5 pcs.)	per j	biece	Complete set
ALL DESCRIPTION OF THE PARTY OF			from 100 pcs.			(see p. 159)
© unpict - Fotolia.com			5 to 95 pcs.			

BEECH INSECTS

insect	name		pheromone			trap
	Europeen berdwood			price	(in €)	
	European hardwood ambrosia beetle	item no.	item	excl. VAT	incl. VAT	MW
AN	(Trypodendron domesticum)	323821	Lineatin Kombi (pack of 5 pcs.)	per p	biece	WT WS
AN			from 100 pcs.			W3
	combined pheromone for Trypodendron species		5 to 95 pcs.			
© U.Schmidt 2006			"species specific pheromone Domowit-Trypo	wit D upon r	equest"	

OAK INSECTS

insect	name		pheromone			trap
100					price (in €)	
Y	aala aindhala barrar	item no.	item no. item	excl. VAT	incl. VAT	MW
110	oak pinhole borer (Platypus cylindrus)	326611	Cilindriwit (pack of 5 pcs.)	per j	piece	WT WS
1 D			from 100 pcs.			W3
© U.Schmidt 2006			5 to 95 pcs.			
101		:	:t	price	(in €)	
	ambrosia beetle (Trypodendron signatum)	item no.	item	excl. VAT	incl. VAT	MW
AR		323821	Lineatin Kombi (pack of 5 pcs.)	per p	piece	WT WS
A BEN			from 100 pcs.			W3
June	Combined pheromone for Trypodendron species		5 to 95 pcs.			
© U.Schmidt 2006			"species specific pheromone Domowit	-Trypowit D upon r	equest"	
			item	price (in €)		
Par 14		item no.		excl. VAT	incl. VAT	FL
010		324011	Lymowit (pack of 5 pcs.)	per p	piece	
	gipsy moth (Lymantria dispar)		from 100 pcs.			
© BFW-Forstschutz			5 to 95 pcs.			
3				price	price (in €)	
191	winter moth	item no.	item	excl. VAT	incl. VAT	FL
Salar Alland	(Operophtera brumata)	361411	Operowit (pack of 5 pcs.)	per p	piece	DS
P //			from 100 pcs.			KF
© BFW-Forstschutz			5 to 95 pcs.			

OAK INSECTS (continued)

insect	name		pheromone			trap
	oak processionary moth (Thaumetopoea 3250		price	price (in €)		
1 mar		item no.	item	excl. VAT	incl. VAT	
		(Thaumetopoea	325011	Thaumatowit (pack of 2 pcs.)	per p	biece
	processionea)		from 100 pcs.			
© BFW-Forstschutz			2 to 98 pcs.			
		item no.	item	price	(in €)	
	arroom ook tortuin	nem no.	item	excl. VAT	incl. VAT	DS
213	green oak tortrix (Tortrix viridana)	325411	Tortowit (pack of 5 pcs.)	per p	piece	FL
			(KF

from 100 pcs.

5 to 95 pcs.

CHESTNUT INSECTS

© BFW-Forstschutz

insect	name		pheromone			trap
	chestnut leaf miner moth			price	(in €)	
"Stangenete	(Cameraria ohridella)	item no.	item	excl. VAT	incl. VAT	DS KF
time	WitaTrap [®] Complete Set	360811	CamerariaWit [®] (see p. 168)	per p	biece	NF
© BFW-Forstschutz	package includes: 1 WitaTrap® Delta Super 2 pheromones (Camerariawit) 2 glue bases (<i>to replace</i>) 1 wire hanger		from 50 pcs.			
-		1 10 49 005.				
		lue bases (<i>to replace</i>) 361211 vire hanger	WitaTrap [®] Chestnut Leaf Miner Moth Complete Set (see p. 166)	per set		
	description colour: white		from 10 sets			Complete Set
~	colour. white		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	
2			from 10 sets			
			1 to 9 sets			Complete Set

VINE INSECTS

insect	name		pheromone			trap
				price	(in €)	
	BEST PRICE PRODUCT	item no.	item	excl. VAT	incl. VAT	KF
Ser and a series of the series	European grape	330411	Eupoewit (pack of 5 pcs.)	per p	biece	DS
	berry moth		from 100 pcs.			
	(Eupoecilia ambiguella)		5 to 95 pcs.			
	BEST PRICE	item no.	item	price (in €)		
	PRODUCT			excl. VAT	incl. VAT	KF DS
SHE	European	331011	Lobewit (pack of 5 pcs.)	per p	piece	Complete Set
	grapevine moth		from 100 pcs.			(see p. 163)
	(Lobesia botrana)		5 to 95 pcs.			
				price	(in €)	
102	BEST PRICE PRODUCT	item no.	item	excl. VAT	incl. VAT	KF

12	PRODUCT			excl. VAT	incl. VAT	KF
Contractor.	cork moth	331211	Nemapowit (pack of 5 pcs.)	per p	piece	DS
	(Nemapogon cloacella)		from 100 pcs.			
© hlasek	. , 0		5 to 95 pcs.			

ORCHARD INSECTS

insect	name		pheromone		trap
macer	name		pheromone		tiap
				price (in €)	
-	BEST PRICE PRODUCT	item no.	item	excl. VAT incl. VAT	KF
A BUILTON	and line moth	342211	Pomowit (pack of 5 pcs.)	per piece	DS
1 State	codling moth (Cydia pomonella,	072211	from 100 pcs.		Complete Set
	Laspeyresia)		5 to 95 pcs.		(see p. 163)
				price (in €)	
1	BEST PRICE	item no.	item	excl. VAT incl. VAT	_
1 The State	PRODUCT	340611	A normality (page of F page)		KF
	peach twig borer	540011	Anarowit (pack of 5 pcs.) from 100 pcs.	per piece	DS
1-	(Anarsia lineatella)		5 to 95 pcs.		
				price (in €)	
1000	BEST PRICE	item no.	item	excl. VAT incl. VAT	_
N	PRODUCT	341011	Enarowit (pack of 5 pac)		KF
A REAL	cherry bark tortrix	541011	Enarowit (pack of 5 pcs.) from 100 pcs.	per piece	DS
	(Enarmonia formosana)		5 to 95 pcs.		
				price (in €)	
	BEST PRICE PRODUCT	item no.	item	-	KF
Contraction of		241011		excl. VAT incl. VAT	DS
00	plum fruit moth (Grapholita funebrana)	341211	Grapowit (pack of 5 pcs.)	per piece	Complete Set
			from 100 pcs. 5 to 95 pcs.		(see p. 163)
			5 to 55 pcs.		
				price (in €)	
	BEST PRICE	item no.	item	-	_
622	PRODUCT	241411		excl. VAT incl. VAT	KF
No.	oriental fruit moth	341411	Molestawit (pack of 5 pcs.)	per piece	DS
	(Grapholita molesta)		from 100 pcs. 5 to 95 pcs.		
			5 to 95 pcs.		
5				price (in €)	
0		item no.	item		_
Contraction of the second	winter moth	261411		excl. VAT incl. VAT	- FL
A Q	(Operophtera brumata)	361411	Operowit (pack of 5 pcs.) from 100 pcs.	per piece	DS KF
© BFW-Forstschutz			5 to 95 pcs.		_
e Di W-i 0istschutz					
				price (in €)	
1	BEST PRICE PRODUCT	item no.	item	excl. VAT incl. VAT	KF
LOUD		340761	Cerasiwit pack of 5 pcs.)	per piece	DS
19	cherry fruit fly	540701	from 100 pcs.	per piece	complete Set
© entomart	(Rhagoletis cerasi)		5 to 95 pcs.		(see p. 163)
				price (in €)	
a Farmer	BEST PRICE PRODUCT	item no.	item	excl. VAT incl. VAT	KF DS
2. 39		340711	Completawit (pack of 5 pcs.)	per piece	
No.	walnut husk fly (Rhagoletis completa)		from 100 pcs.	P == proco	Complete Set (see p. 163)
0211 020202	(magoieus compieid)		5 to 95 pcs.		

CORN INSECTS

insect	name		pheromone				
	Western corn root worm		price (in €)	(in €)			
	(Diabrotica virgifera)	item no. item	Item	excl. VAT	incl. VAT		
	St-	350811	Virgiwit – attracts only the males (pack of 5 pcs.)	per p	piece		
V.	- An		from 100 pcs.			KF	
11			5 to 95 pcs.				
		351011	Virgiwit Plus – attracts males and females (pack of 5 pcs.)	per p	piece		
			from 100 pcs.				
			5 to 95 pcs.				

FOOD INSECTS

insect	name		pheromone			
	combined pheromone	:		price (in €)		
	food moths –	item no.	item	excl. VAT incl. VAT	DC	
- Kills	flour moth (Ephestia kuehniella) Indianmeal moth		Ephestowit (pack of 5 pcs.)	per p	biece	DS FL
© unpict - Fotolia.com (Epnestia Kuennielia) Indianmeal moth (Plodia interpunctella)			from 100 pcs.			
		5 to 95 pcs.				

WOOD INSECTS

insect	name		pheromone				
old house borer (Hylotrupes baiulus)			price (in €)				
	item no.	item	excl. VAT incl. VAT	De			
	(Hylotrupes bajulus)	380411	Bajuluwit – attracts the females	per p	biece	DS 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					
	:•	1 1	price (in €)					
	Asian long-horned beetle	item no.	item	excl. VAT	-			
	(Anoplophora glabripennis)	361511	Glabriwit Pro – effective: 60 days (shipping unit: 1 pack = 2 units à 3 ampoules)	per	pack	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 ALPH				
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
parred 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			Ipsowit [®] Standard, Ipsowit FJ	
eigth-spined engraver beetle)	lps typographus	spruce	Pheroprax [®] , KombiWit [®] Tube	72, 75, 7
eye-spotted bud moth	Spilonota ocellana	apple	Spilowit	on order
ood moths	Ephestia kuehniella (Anagasta k.)	food	Ephestowit	82
flour moth & Indianmeal moth)	and Plodia interpunctella		·	
orest 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
arch bark beetle	Ips cembrae	larch	Cembräwit	78
arch bud moth (and pine shoot moth)	Zeiraphera diniana	larch	Rhyowit	on order
arch casebearer	Coleophora laricella	larch	Colowit	78
leopard moth	Zeuzera pyrina	fruit	Zeuzerowit	on order
ong-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
pak pinhole borer	Platypus cylindrus	oak	Cilindriwit	79
bak processionary moth	Thaumetopea prozessionea	oak	Thaumatowit	80
bld house borer	Hylotrupes bajulus	wood	Bajuluwit	82
priental fruit moth	Grapholita molesta	peach	Molestawit	81
			Nigriwit	on order
pea moth	Cydia nigricana	pea	5	
beach 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
olum fruit moth	Grapholita funebrana	plum	Grapowit	81
ed palm weevil	Rhynchophorus ferrugineus	palm	Ferrowit	on order
ed-haired pine bark beetle	Hylurgus ligniperda	pine	Ligniwit Tube, Gallopro Pinowit	78
ilver fir bark beetle	Pityokteines curvidens	fir	Curviwit®	77
ix-spined engraver beetle	Ips sexdentatus	pine	Sexowit [®] , Gallopro Pinowit	78
six-toothed spruce bark beetle	Pityogenes chalcographus	spruce	Chalcowit [®] , Chalcoprax [®] Ampoule, KombiWit [®] Tube	73, 75, 7
striped ambrosia beetle	Trypodendron lineatum	spruce	Trypowit, Lineatin Kombi	77
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

FESTS LISTED IN	ALPHADEIIGAL URDER A	CCORDING	TU SUIENTIFIC	
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	реа	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
lps acuminatus	engraver beetle	pine	Acuwit®	78
			Amitinuswit	76
lps amitinus lps cembrae	eight-toothed spruce bark beetle	spruce	Cembräwit	78
•	northern bark beetle			76
Ips duplicatus	six-spined engraver beetle	spruce pine	Dupliwit Sexowit [®] , Gallopro Pinowit	78
Ips sexdentatus	European spruce bark beetle	pine	Ipsowit [®] Standard,	70
Ips typographus	(eigth-spined engraver beetle)	spruce	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	cypress bark beetle (juniper bark beetle)	red cedar, juniper	Aubeiowit Plus	on order
Pityogenes chalcographus	six-toothed spruce bark beetle	spruce	Chalcowit [®] , Chalcoprax [®] Ampoule, KombiWit [®] Tube	73, 75, 78
Pityokteines curvidens	silver fir bark beetle	fir	Curviwit®	77
Platypus cylindrus	oak pinhole borer	oak	Cilindriwit	79
Rhagoletis cerasi	cherry fruit fly	cherry	Cerasiwit	81
Rhagoletis completa	walnut husk fly	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
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PESTS LI	STED IN ALPHABETICAL	ORDER ACCORDING	TO PLANTS	
plant	English common name	scientific name	pheromone	page
apple	apple clearwing moth	Synanthedon myopaeformis	Myopaewit	on order
apple	barred fruit tree tortrix moth	Pandemis cerasana, P. ribeana	Ribowit	on order
apple	codling moth	Cydia pomonella (Laspeyresia)	Pomowit	81
apple	eye-spotted bud moth	Spilonota ocellana	Spilowit	on order
apple	summer fruit tortrix moth or apple brown tortrix	Adoxophyes orana	Adoxowit	on order
beech	European hardwood ambrosia beetle	Trypodendron domesticum	Lineatin Kombi	79
boxwood	box tree moth	Cydalima perspectalis	Cydawit	79
broadleaf	asian long-horned beetle	Anoplophora glabripennis	Glabriwit Pro	82
cherry	cherry bark tortrix	Enarmonia formosana	Enarowit	81
cherry	cherry fruit fly	Rhagoletis cerasi	Cerasiwit	81
chestnut	chestnut leaf miner moth	Cameraria ohridella	Camerariawit	80
corn				82
	Western corn root worm	Diabrotica virgifera	Virgiwit, Virgiwit Plus	-
fir	silver fir bark beetle	Pityokteines curvidens	Curviwit®	77
food	food moths (flour moth & Indianmeal moth)	Ephestia kuehniella (Anagasta k.) and Plodia interpunctella	Ephestowit	82
fruit	currant clearwing moth	Synanthedon tipuliformis	Tipuliwit	on order
fruit	leopard moth	Zeuzera pyrina	Zeuzerowit	on order
larch	larch bark beetle	Ips cembrae	Cembräwit	78
larch	larch bud moth (and pine shoot moth)	Zeiraphera diniana	Rhyowit	on order
larch	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
oak	oak processionary moth	Thaumetopea prozessionea	Thaumatowit	80
oak	winter moth	Operophtera brumata	Operowit	81
palm	red palm weevil	Rhynchophorus ferrugineus	Ferrowit	on order
•	pea moth			on order
pea		Cydia nigricana	Nigriwit	
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
pine	engraver beetle	Ips acuminatus	Acuwit®	78
pine	long-horned beetle (and others)	Monochamus galloprovincialis (and others)	Gallopro Pinowit	78
pine	Mediterranean pine engraver beetle	Orthotomicus erosus	Erosowit Tube	78
pine	pine beauty moth	Panolis flammea	Panowit	on order
pine	pine sawfly	Diprion pini	Dipowit	on order
pine	red-haired pine bark beetle	Hylurgus ligniperda	Ligniwit Tube®	78
pine	six-spined engraver beetle	Ips sexdentatus	Sexowit [®] , Gallopro Pinowit	78
pine, larch	pine shoot moth (and larch bud moth)	Rhyacionella buoliana	Rhyowit	on order
plum	plum fruit moth	Grapholita funebrana	Grapowit	81
polyphage type	brown marmorated stink bug	Halyomorpha halys	Halyowit Dispenser	on order
red cedar, juniper	cypress bark beetle (juniper bark beetle)	Phloeosinus aubei	Aubeiowit Plus	on order
			Aubelowit Plus Amitinuswit	on order 76
spruce	eight-toothed spruce bark beetle	Ips amitinus	Amitinuswit Ipsowit [®] Standard, Ipsowit [®] FJ,	/0
spruce	(eigth-spined engraver beetle)	Ips typographus	Pheroprax [®] , KombiWit [®] Tube	72, 75, 77
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
vegetable and fruit	cotton moth, cotton bollworm	Heliothis armigera	Heliowit	on order
vine	cork moth	Nemapogon cloacella	Nemapowit	80
vine	European grape berry moth	Eupoecilia ambiguella	Eupoewit	80
vine	European grapevine moth	Lobesia botrana	Lobewit	80
walnut family	walnut husk fly	Rhagoletis completa	Completawit	81
willow	goat moth	Cossus cossus	Cossuwit	on order
wood	old house borer	Hylotrupes bajulus	Bajuluwit	82
			Bajarawit	02