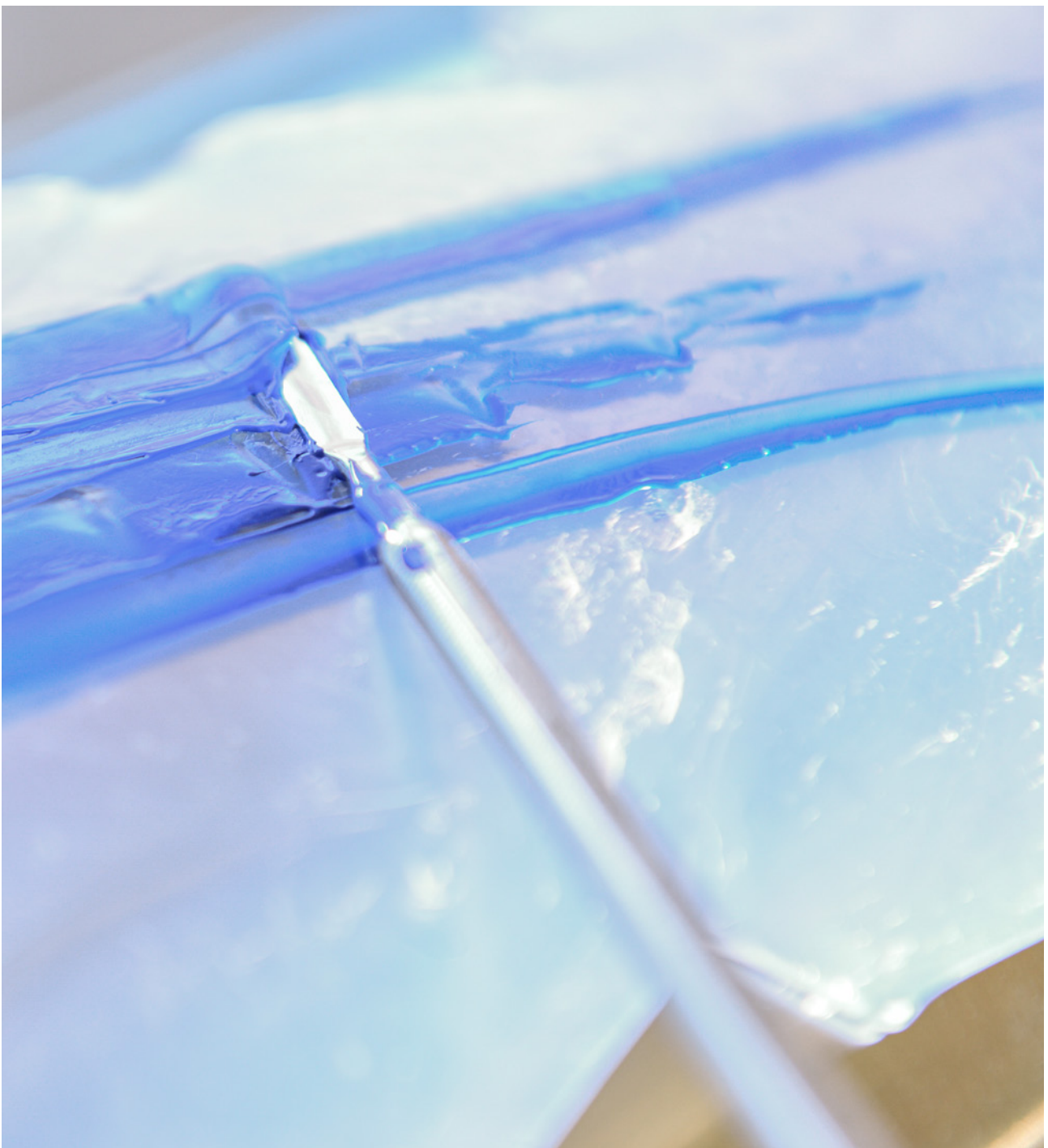


Product information
Silicone processing



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Silicone processing

Nowadays, silicone is one of the established materials in orthopaedic technology. Basis for production of silicone is silicon (Chemical Code: Si), which is extracted in connection with oxygen (O₂) from various natural substances such as sand, gravel or quartz. It provides excellent physical characteristics, optimal processing options and is highly skin-compatible, which prevents skin irritations and allergies.

Being a full-range supplier, of course we offer in addition to the raw materials also important accessories, tools and machines; which are necessary for the production of epitheses, prosthetic sockets and orthoses. This includes for example special materials for mould construction, primers, silicones in various shore hardness grades as well as many colours.

This product information summarises the most important products of our wide-ranged assortment for silicone processing. To see our complete product portfolio in this area, please see our main catalogues "machines & tools" and "materials & equipment" at: www.streifeneder.com/op.





Alginate

Material

- alginate
- colour: yellow

Application

- for detailed cast taking of fingers, epitheses, feet and hands
- apply a 1 cm layer on the requested body section and reinforce from the outside with a POP bandage
- subsequently fill the cast with plaster item-no. 5E1 or 5E2
- for mixing and applying use alginate spatula item-no. 50E4

Characteristics

- pleasant smell

Mixing ratio

- 23 g Alginate : 50 ml cold water

PU = 1 tin

| Content | Item-No. |
|---------|----------|
| 500 g | 1E2 |



AbdoSil.RTV L

Material

- low viscosity silicone to manufacture very precise impressions
- colour: blue

Application

- especially for Maxillo-Facial-Prosthetics

Properties

- incl. catalyst

Set consisting of:

- 2 cartridges à 50 ml
- 12 mixing tips

Sales unit = 1 set

| Item-No. |
|----------|
| 82E4 |



Abdosil H with Catalyst

to stiffen the material

Material

- low viscosity silicone to manufacture very precise impressions
- colour: green

Application

- especially for Maxillo-facial-prosthetics

Characteristics

- incl. catalyst

Set consisting of:

- 2 cartridges à 50 ml
- 12 mixing tips

PU = 1 set

| | Item-No. |
|--|----------|
| | 82E5 |



To stiffen the casts made of Abdosil L item-no. 82E4.



Mixing Gun

Application

- for Abdosil L item-no. 82E4, Abdosil H item-no. 82E5 and Araldite Adhesive item-no. 90C1

PU = 1 piece

| | Item-No. |
|--|----------|
| | 82E6/50 |



Moulding Plaster, synthetic

Material

- calcium-sulfate modification

Application

- for detailed copy from a negative and for mould construction

Characteristics

- low expansion
- very hard

Mixing ratio

- 1 part water : 3 parts special plaster item-no. 5E2

PU = 1 bag

| Content | Item-No. |
|---------|----------|
| 25,0 kg | 5E2 |



Moulding Plaster, porous

Material

- calcium-sulfate

Application

- for direct contact between silicone and plaster
- in combination with vacuum technics using Pastosil und Episil

Characteristics

- hard
- low bubble development

Mixing ratio

- 1 part water : 1,5 parts plaster item-no. 5E1

PU = 1 bag

| Content | Item-No. |
|---------|----------|
| 25,0 kg | 5E1 |



PastoSil.HTV

Material

- RTV silicone plasticine
- components A and B
- colour: peach

Application

- for direct casts on patient
- for direct casts on patient, for copying of models and for manufacturing of check prostheses

Properties

- grindable in hardened condition
- processing time depending on room temperature: 2-5 min

Mixing ratio

- component A : component B 1 : 1

Sales unit = 2 resp. 4 plastic containers

| Content | Item-No. |
|------------|----------|
| 4 x 250 g | 81E2/1 |
| 2 x 1,0 kg | 81E2/2 |



EpiSil.HTV, 20 Shore A

Material

- HTV silicone
- components A and B

Application

- for manufacture of liners, compression gloves and other elastic fittings

Properties

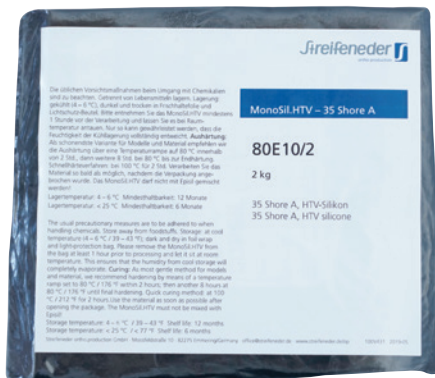
- 20 Shore A
- rollable
- highly tear-proof after vulcanisation

Mixing ratio

- component A : component B 1 : 1

Sales unit = 1 set (2 tins)

| Content | Item-No. |
|-------------|------------|
| 1,0 kg each | 80E11/2 |
| 4,8 kg each | 80E11/9,6 |
| 6,8 kg each | 80E11/13,6 |



MonoSil.HTV

Material

- HTV silicone
- 1 component

Application

- for manufacturing of individual orthoses and prostheses

Characteristics

- 35, 55 and 70 shore A
- suitable for rolling out
- suitable for colouring
- very tear-resistant after vulcanisation

Mixing ratio

ratio

- no mixing ratio, due to single component

| Content | Version | Item-No. |
|---------|------------|----------|
| 2,0 kg | 35 shore A | 80E10/2 |
| 2,0 kg | 55 shore A | 80E20/2 |
| 2,0 kg | 70 shore A | 80E30/2 |



Insulate porous plaster cast models with Sealer/Liquid Wax 84E9. By doing this, it will be easier to remove the silicone after hardening from the plaster cast model.



KonSil.RTV

Material

- liquid RTV silicone
- components A and B

Application

- for the production of stump end load absorption cushioning and soft cushioning

Properties

- Silicone gel with very soft properties
- curing time at room temperature approx. 24 hours

Mixing ratio

- component A : component B 1 : 1

Sales unit = 1 set (2 tins)

| Content | Item-No. |
|-------------|----------|
| 1,0 kg each | 81E27 |

J The hardness of KonSil.RTV can be adjusted by addition of FacialSil.RTV 81E1. To do this, mix both mixed components (KonSil.RTV und FacialSil.RTV) and then adjust to desired shore hardness. A mixing ratio of 50:50 will obtain approx. 12 – 15 shore A. At room temperature over 22 °C / 72 °F, store the silicone in the refrigerator to obtain a longer curing time. The curing time is approx. 45 minutes.



FacialSil.RTV, 35 Shore A

Material

- liquid RTV silicone

Application

- for the production of Maxillo-Facial prosthetics

Properties

- after curing approx. 35 Shore A
- Curing time at room temperature approx. 24 hours

Mixing ratio

- component A : component B (catalyser) 1 : 1

Sales unit = 1 set (2 bottles)

| Content | Item-No. |
|---|----------|
| 1,0 kg (component A) and 1,0 kg (component B) | 81E1/2 |

J The hardness of KonSil.RTV can be adjusted by addition of FacialSil.RTV 81E27. To do this, mix both mixed components (KonSil.RTV und FacialSil.RTV) and then adjust to desired shore hardness. A mixing ratio of 50:50 will obtain approx. 12 – 15 shore A. At room temperature over 22 °C / 72 °F, store the silicone in the refrigerator to obtain a longer curing time. The curing time is approx. 45 minutes.



StreifySil.RTV, 5 Shore A

Material

- liquid RTV silicone
- components A and B

Application

- for the production of stump end load absorption cushioning, soft cushioning and liner

Properties

- 5 Shore A
- very soft properties
- Curing time at room temperature approx. 1 hours

Mixing ratio

- component A : component B (catalyser) 1 : 1

Sales unit = 1 set (2 tins)

| Content | Item-No. |
|---|----------|
| 1,0 kg (component A) and 1,0 kg (component B) | 81E26 |

S To achieve a consistency for trowelling, StreifySil.RTV can be thickened with stabilisator 81E28. Add the stabilisator only drop by drop as needed. Please take care that it is mixed well.

At room temperature over 22 °C / 72 °F, store the silicone in the refrigerator to obtain a longer curing time. The curing time is approx. 5 – 10 minutes.



Stabilisator for StreifySil.RTV silicones

Material

- Polyether

Application

- for thickening of StreifySil.RTV Item-No. 81E26

Sales unit = 1 tin

| Content | Item-No. |
|---------|----------|
| 100 g | 81E28 |



LinerSil.RTV, 5 Shore A

Material

- liquid RTV silicone
- components A and B

Application

- for the production of individual liners

Properties

- Processing time 10 - 15 min
- demouldable after 90 minutes
- after curing approx. 5 Shore A

Mixing ratio

- component A : component B 1 : 1

| Content | Item-No. |
|------------|----------|
| 500 g each | 81E31/1 |



LinerSil.RTV slow, 5 Shore A

Material

- liquid RTV silicone
- components A and B

Application

- for the production of individual liners

Properties

- Processing time 45 min
- demouldable after 3 hours
- after curing approx. 5 Shore A

Mixing ratio

- component A : component B 1 : 1

| Content | Item-No. |
|-------------|----------|
| 1.0 kg each | 81E32/2 |



RTV Silicone Adhesive (1K)

Material

- viscous RTV-Silicone

Application

- single component for adhesion of fabric covers on liners, and for sealing

Characteristics

- heat-stable
- flexible at low temperature
- electrically insulating

| | Item-No. |
|--|----------|
| | 81E29 |



Cartridge Gun

Application

- for dispensing raw material from cartridges (for item-no. 81E29)

| | Item-No. |
|--|----------|
| | 81E29/E1 |



Silicone Thinner

Material

- liquid silicone thinner

Application

- for thinning of silicone adhesives (e.g. to adhere fabric covers to liners)

Characteristics

- transparent
- liquid

| Content | Item-No. |
|---------|----------|
| 1 liter | 81E30 |



Mixing Board

Material

- waxed special paper

Application

- for mixing of Episil und Abdosil

Characteristics

- with anti-slip coating to avoid displacement

PU = 1 board with 50 sheets

| Dimensions L x W | Item-No. |
|------------------|----------|
| 240 x 150 mm | 75E1 |



Sealer/Liquid Wax

Material

- mixture of C7 – C10 isoalkanes and isopropyl alcohol

Application

- insulates plaster casts safely against silicone

Characteristics

- liquid
- brushable
- quick-drying

PU = 1 bottle

| Content | Item-No. |
|---------|----------|
| 500 ml | 84E9 |

 Please use your personal protection gear when handling sealer / liquid wax.



Silicone-Cleaner „soft formula“

Material

- Silicone-Cleaner

Application

- Detergent and solvent for silicones
- for surface dissolving of uncured silicones

Properties

- crystal clear
- liquid
- exempt from labelling regulation
- non-flammable

Sales unit = 1 bottle

| Content | Item-No. |
|---------|----------|
| 500 ml | 83E6 |





Heptan



Material

- heptan

Application

- detergent and solvent for silicones
- for surface dissolving of uncured Episil item-no. 80E31 (65 Shore A)

Characteristics

- crystal clear
- liquid
- easily flammable
- hazardous to water

PU = 1 bottle

| Content | Item-No. |
|---------|----------|
| 250 ml | 83E4 |

 Please use your personal protective equipment (PPE) when handling heptan.

Chemical Protection Gloves



Material

- HPPE-laminate film
- according EN 374 standard; protection category 6

Application

- chemical-resistant foilglove, suitable for processing silicone

Characteristics

- 5-layer
- anatomical shape

PU = 1 pair

table 1

| size | length | Item-No. |
|------|--------|----------|
| 6 | 380 mm | 12P22/6 |
| 7 | 380 mm | 12P22/7 |
| 8 | 380 mm | 12P22/8 |
| 9 | 380 mm | 12P22/9 |
| 10 | 410 mm | 12P22/10 |



Loctite Silicone Glue Set



Material

- cyanoacrylate instant adhesive

Application

- for strong and very tight bondings of silicones and other elastomers

Characteristics


- crystal clear
- liquid
- quick-drying

Set consisting of:

- 1x Loctite 7063, Quick Cleaner 400 ml item-no. 118P41
- 1x Loctite 770, Primer 10 g item-no. 118P45
- 1x Loctite 406, Rapid Glue 20 g item-no. 118P44

PU = 1 set

| | Item-No. |
|--|----------|
| | 81E20 |

 Please use your personal protection equipment (PPE) when handling loctite silicone glue set.

Pacolor



Material

- pasty, highly efficient colour pigments

Application

- for opaque colouring of transparent silicones

Characteristics

- pasty
- temperature resistant
- intensive colour
- lightfast

PU = 1 tin (50 g)



| Colour | Item-No. |
|---------|----------|
| peach | 44E10 |
| white | 44E11 |
| red | 44E12 |
| yellow | 44E13 |
| blue | 44E14 |
| black | 44E15 |
| auburn | 44E16 |
| orange | 44E17 |
| magenta | 44E18 |
| green | 44E19 |



Facolor

Material

- viscose fibre (shiny)

Application

- for plastic colouring of transparent silicones

Characteristics

- temperature resistant
- intensive colour
- lightfast

PU = 1 bag (75 g)

| Colour | Item-No. |
|---------------|----------|
| white | 45E11 |
| red | 45E12 |
| yellow | 45E13 |
| blue | 45E14 |
| black | 45E15 |
| dark red | 45E16 |
| dark brown | 45E17 |
| pink | 45E18 |
| green | 45E19 |
| light brown | 45E20 |
| sunshine yolk | 45E21 |
| violet | 45E22 |
| orange | 45E23 |



Lamination Disk

Material

- stainless steel

Application

- to anchor in silicone (HTV), pre-preg and laminating resins

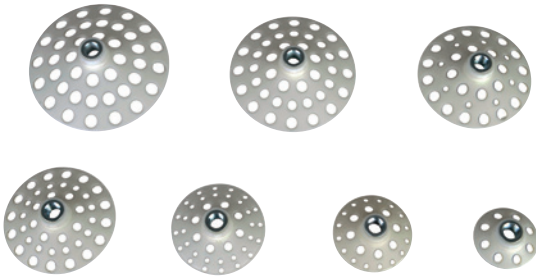
Characteristics

- with 3 slots
- corrosion-resistant

PU = 1 piece

| Thread diameter x Head diameter x Length | Item-No. |
|--|----------|
| M4 x 15 x 4,8 mm | 34P9 |

PIN-connection with groove for silicone liners



Material

- POM
- thread bushing made of steel

Application

- for individual manufacturing of silicone liners

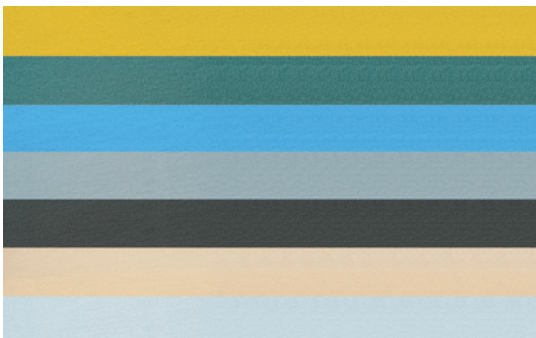
PU = 1 piece

table 1

| diameter | weight | Thread | Item-No. |
|----------|--------|--------|----------|
| 40 mm | 11 g | M10 | 50A3/40 |
| 50 mm | 12 g | M10 | 50A3/50 |
| 60 mm | 14 g | M10 | 50A3/60 |
| 70 mm | 16 g | M10 | 50A3/70 |
| 86 mm | 19 g | M10 | 50A3/86 |
| 96 mm | 22 g | M10 | 50A3/96 |



Duolastic Cover Fabric



Material

- 84 % polyamide and 16 % elasthane
- 275 g/m²

Application

- bi-elastic cover fabric for individual manufacturing of liners

Characteristics

- duolastic: extremely elastic in both directions (length: 200 %, width: 150 %) and abrasion resistant
- one side raised for better silicone fabric connection

PU = running metre

| Width | Colour | Item-No. |
|--------|------------|----------|
| 165 cm | yellow | 8T15/G |
| 165 cm | green | 8T15/GÜ |
| 150 cm | light blue | 8T15/HB |
| 150 cm | grey | 8T15/MG |
| 165 cm | anthracite | 8T16/A |
| 165 cm | sand | 8T16/SD |
| 165 cm | silvergrey | 8T16/SG |



Zipper

Material

- fabric with plastic teeth
- colour: black

Application

- as closing system in silicone orthoses or in textile manufacturing

Characteristics

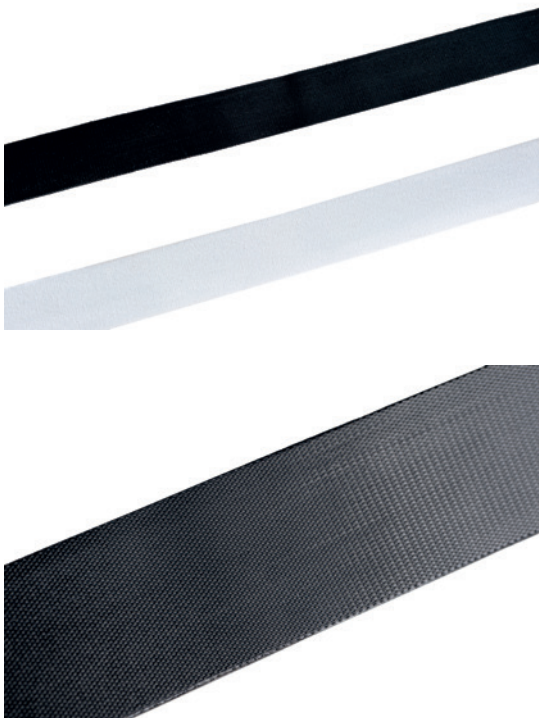
- separating

PU = 1 pc.

| Length | Item-No. |
|--------|----------|
| 20 cm | 85E1/20 |
| 25 cm | 85E1/25 |
| 30 cm | 85E1/30 |



Micro Velcro/Velour Strap „Back to Back“



Material

- 100 % polyamide
- extruded (hook-shaped warp pressed into shape)
- colour: black

Application

- especially suitable for incorporation into HTV silicones
- Micro Velcro fastenings have a higher shear strength but lower adhesive strength than normal hook strap fasteners
- the Velcro can also be used with other hook-and-loop fasteners or velour fabrics

Sales unit = 1 m

table 1

| width | Colour | Item-No. |
|-------|--------|------------|
| 38 mm | black | 60T41BS38S |
| 38 mm | white | 60T41BS38W |



Scissors

- small, bent, with micro-teeth on lower blade, specially recommend for cutting silicone
- PU = 1 piece

| Length | Item-No. |
|--------|----------|
| 130 mm | 50E7 |



Scissors

- small, bent, vertical tip, specially recommend for cutting silicone
- PU = 1 piece

| Length | Item-No. |
|--------|----------|
| 145 mm | 50E17 |



Silicone Spatula

- flexible
- wide, for mixing of liquid silicones
- PU = 1 piece

| Length of spatula | Total length | Item-No. |
|-------------------|--------------|----------|
| 105 mm | 205 mm | 50E5 |



Modelling Spatula made of Plastic Material

- to gently remove HTV-silicone residue from mechanical and electronical silicone rollers / calenders
- perfectly suitable for modelling plaster, wax, plasticine and silicone
- PU = 1 piece

| Colour | Length | Item-No. |
|--------|----------------|----------|
| blue | approx. 200 mm | 166P24 |



Processing Roller

- conical
- for processing of moldable silicones
- PU = 1 piece

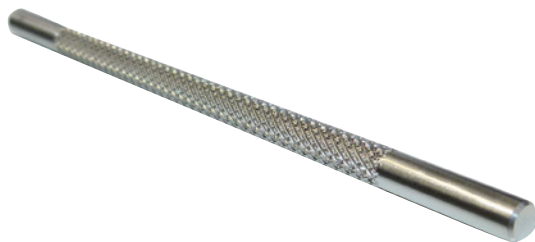
| | |
|--|-----------------|
| | Item-No. |
| | 50E3 |



Processing Roller

- cylindrical
- for processing of moldable silicones
- PU = 1 piece

| Length | Diameter | Item-No. |
|--------|----------|----------|
| 150 mm | 8,0 mm | 50E15 |



Processing Roller

- cylindrical
- for processing of moldable silicones
- PU = 1 piece

| Length | Diameter | Item-No. |
|--------|----------|----------|
| 120 mm | 5,0 mm | 50E16 |



Double-Sided Spatula, Small

- for modelling of wax and silicones
- PU = 1 piece

| | |
|--|-----------------|
| | Item-No. |
| | 50E21 |



Wax Knife

- for modelling of wax and silicones
- PU = 1 piece

| Length | Item-No. |
|--------|----------|
| 170 mm | 50E9 |



Scalpel handle „Standard, fig. 4“

- solid flat handlesuitable for blades fig. 18-36length = 140 mmPU = 1 piece

| | Bestell-Nr. |
|--|-------------|
| | 50E26 |



Scalpel Blade

- sterile
- small blade for detailed works
- for scalpel handle item-no. 50E26
- PU = 100 pieces

| Size | Item-No. |
|---------|----------|
| Fig. 24 | 50E27 |



Plaster Mixer


- for airbubble-free mixing of plaster and liquid silicones
- for wall- or table mount
- vacuum device with maintenance-free injector pump
- sturdy and powerful motor
- easy installation
- automatic- and manual switch
- installed vibrator
- incl. mixing bowl 500 ml
- incl. table stand

Technical data

- dimensions W x D x H: 240 x 220 x 400 mm
- revolutions per minute: 425
- power requirements: 230 V / 50 Hz / 1 Ph / 0.25 kW
- weight: 15 kg
- colour: white

| | Item-No. |
|--|----------|
| | 90E20 |

scope of supply does not include tripod.

 for all maintenance work at the plaster mixer, we recommend to use the special oil for plaster mixer, item-no. 90E20/E1 (volume 500 ml).

Mixing Bowl for Plaster Mixer 90E20

- mixing bowl with agitator
- for mixing liquid plaster and RTV-silicones



90E20/500

| Filling quantity | Material | Item-No. |
|------------------|----------|------------|
| 300 ml | Plastic | 90E20/300 |
| 500 ml | Plastic | 90E20/500 |
| 875 ml | Plastic | 90E20/875 |
| 1200 ml | Steel | 90E20/1200 |



Electric Silicone Roller

desktop unit

- for mixing and rolling of silicone of 0,1 mm to 15 mm material thickness

Features

- integrated soft-touch control panel in the casing
- emergency-off switch at the casing
- foot pedal
- manually adjustable roller distance by hand lever
- digital indication of roller distance
- safety device in front of rollers
- automatic opening of the rollers by emergency-off bar
- backlight behind rollers

Technical data

- digital display of roller distance from 0 – approx. 15 mm
- roller dimensions: Ø 100 x 400 mm
- machine dimensions W x D x H: 780 x 530 x 580 mm
- digital display: accuracy 0,1 mm
- roller speed: step 1 – 10)
- power requirements: 230V / 50-60 Hz / 1 Ph / 0,37 kW
- weight: 170 kg
- colour: RAL 7035 lightgrey

| Item-No. |
|----------|
| 90E33 |



Electric Silicone Roller

- for mixing of large quantities of silicone
- for rolling out big silicone sheets from 0,1 to 20 mm thickness

Features

- integrated soft-touch-control-panel in the casing
- foot pedal with emergency-off function
- electric adjustable roller distance
- manual hand crank for emergencies
- safety devices

Technical data

- digital display of roller distance: 0 – approx. 20 mm
- max. roller sheet dimension: 650 x 720 mm
- dimensions of rollers: Ø 200 mm x 740 mm
- machine dimensions W x D x H: 1140 x 650 x 1300 mm
- digital display: 0,1 mm accuracy
- motor speed: 1480 RPM
- output power: 510 Nm
- power requirements: 230 V / 50 Hz / 1 Ph / 1,5 kW
- nominal current: 9 A
- control voltage: 24 V DC
- weight: 340 kg net
- colour: RAL 7035 light grey

| Item-No. |
|----------|
| 90E30 |



Manufactured according to valid VDE standards and CE guidelines.



picture similar

Silicone Work Station

Features

- dust suction unit
- 3 drawers
- 4 sockets
- connections for gas, electro and compressed air
- front table for suction mouth
- flexible work lamp
- adjustable working height

Technical data

- dimensions W x D x H: 1240 x 620 x 820 – 950 mm
- scope of adjustment: 6 adjustments à 25 mm
- power requirements: 230 V / 50 – 60 Hz / 1 Ph / max. 1 kW
- weight: approx. 130 kg
- colour: gentian blue

| Item-No. |
|----------|
| 90E50 |

The total consumption of the connected electrical devices must not exceed 12 A.

Explanation of Symbols

Textile Care Symbols



40 °C normal wash



Ironing with two dots - approx. 150 °C



Do not bleach



No dry cleaning



Do not tumble dry

Danger Symbols



Flame



Environment



Exclamation mark



Health hazard

Do you know our training centre Streifeneder ortho.training?

In order to remain competitive and to meet the growing demands of patients, the use of high-quality orthopaedic products is not the only thing important. A broad spectrum of practical knowledge, based on up-to-date scientific findings provides the best preconditions to be able to react competently and professionally to all day-to-day practical challenges.

To provide valuable practical and detailed knowledge to professionals of the orthopaedic- and orthopaedic shoe technology, as well as to physiotherapists and podologists, the training centre Streifeneder ortho.training, located in Emmering, has been founded.

A generously spaced seminar room (AudiMax) with 160 seats as well as a fully equipped workshop with 15 workstations, machine room, patient fitting room and casting room on approx. 1000 sqm provide the best preconditions for qualified education at highest level. Modern tools as well as multimedia-devices, a fully equipped gait lab as well as adequate training- and demonstration material are also standard.

Furthermore, our training centre is excellently positioned by our instructors. A team of highly qualified and engaged staff members, all with orthopaedic technical back ground; with practical knowledge and direct contact to patients is at your service. By continuous evaluation of the seminars and the instructors, we guarantee consistent high teaching quality. Furthermore, all seminars are accredited depending on target group, by institute for quality management and certification (IQZ) and AGOS.



The carefully prepared seminar programme includes approx. 50 seminars per year, on subjects such as silicone processing, pre-preg processing, AK- resp. BK prosthetics, synthetic materials or motion analysis. With a flexible programme set-up, we also meet individual customer demands and offer seminars to special subjects upon request. To grant a seminar spectrum as broad as possible, we invite top-class external speakers on regular basis to our training-centre.

Please see our current seminar calendar with further information about all seminars at our website www.streifeneder.de/training. Of course we will be pleased to send the seminar brochure to you by mail or e-mail as well. For non-committal information, please contact us:

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