

# Difficult Airways & Intubation completing the picture



## AIRWAY MANAGEMENT

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# Difficult Airways & Intubation



## Airway solutions for Difficult Airways and Intubation

The Portex® range of airway products offers you a step by step solution to difficult airway and meets your requirements to continue airway management throughout General Anaesthesia.

### The portfolio includes:

- Laryngeal Mask
- Laryngoscope handles and blades
- Bougies, Guides and Stylets
- Tracheal tubes for the OR and Intensive Care
- Airways
- Speciality Paediatric Tracheal tube systems
- Face Masks
- Accessories
- Thoracic Airway Anaesthesia products
- CO<sub>2</sub> absorbents

# Laryngoscope Blades & Handles

## CALLISTO- FIBRE OPTIC METAL DISPOSABLE LARYNGOSCOPE BLADES

Description	Code
Callisto Macintosh Child No.2 100 X 17 mm (box of 10)	DS.3940.150.15
Callisto Macintosh Adult 130 X 18 mm (box of 10)	DS.3940.150.20
Callisto Macintosh Large Adult No.4 155 X 18 mm (box of 10)	DS.3940.150.25
Callisto Miller Neonate No.0 75 X 8.5 mm (box of 10)	DS.3940.185.05
Callisto Miller Infant No.1 102 X 8.5 mm (box of 10)	DS.3940.185.10
Callisto Miller Child No.2 195 X 11 mm (box of 10)	DS.3940.185.15
Callisto Miller Adult No.3 195 X 11 mm (box of 10)	DS.3940.185.20



Callisto Metal Macintosh blade profile

## FREEWAY - FIBRE OPTIC PVC DISPOSABLE LARYNGOSCOPE BLADES

Description	Code
Freeway Macintosh Child No. 2 110x20mm (box of 10)	2965.150.15
Freeway Macintosh Adult No. 3 135x20mm (box of 10)	2965.150.20
Freeway Macintosh Large Adult No. 4 160x20mm (box of 10)	2965.150.25
Freeway Miller Neonate No. 0 79x9mm (box of 10)	2965.185.05
Freeway Miller Infant No. 1 103x9mm (box of 10)	2965.185.10
Freeway Miller Child No. 2 157x14mm (box of 10)	2965.185.15
Freeway Miller Adult No. 3 197x15mm (box of 10)	2965.185.20



Freeway PVC Macintosh blade profile

## OPTIMA XL XENON REUSABLE FIBRE OPTIC HANDLES

Description	Code
OPTIMA XL HANDLE STUBBY FIBRE AA 32MM (single units)	3000.308.10
OPTIMA XL HANDLE SMALL FIBRE AA 18 mm (single units)	3000.300.05
OPTIMA XL HANDLE MEDIUM FIBRE C 29 mm (single units)	3000.300.10



## CALLISTO EMS PACK

Description	Code
Callisto EMS consists of Macintosh 3 & 4 and Miller 1 sizes and a reusable XL handle (single units)	DS.3940.920.10.



Callisto - EMS Pack

## Disposable Fibre Optic Light Blades

Are fully compatible with ISO 7376/3 Green Spec and available in both Macintosh & Miller configurations.

Callisto was introduced in 2003 as the worlds first metal, fibre optic single use blade at a throw away price. The Callisto laryngoscope blades provide a low cost alternative to reusable blades without compromising on pattern, design or clinical performance.

The Freeway Disposable single use blades are the ideal low cost solution to prevent cross infection during emergency or routine intubation.

The blades provide excellent illumination of the airway without diffusing the light throughout the mouth.

### Callisto features

- 3 ball bearings for secure reuse on same patient
- Wide 4mm fibre light guide
- Single use etched on blade and block
- Light guide out of the line of sight-Miller 0 & 1
- Profiles & blades identical to reusable blade

### Freeway features

- Focused Fibre Optic light
- Improved rigidity
- Individually sterile packed

## Reusable fibre optic light handles

To compliment the outstanding features of the Callisto & Freeway blades, we recommend the reusable Optima XL handles for a bright white illumination. The metal collar around the bulb directs the light upwards to ensure a minimal loss of light and so, maximum illumination from the blade.

### Callisto EMS packs

The green canvas pouch contains individually wrapped products that can be replenished from normal stock. It is delivered complete with a Macintosh blade in both sizes 3 & 4, a Miller blade in size 1 and a reusable XL handle. An ideal solution for use in Emergency situations.

# Laryngoscope Blades & Handles

## EUROPA - STANDARD LIGHT METAL DISPOSABLE LARYNGOSCOPE BLADES

Description	Code
Europa Macintosh Child No. 2 100x17mm (box of 10)	DS.2940.150.15
Europa Macintosh Adult No. 3 130x18mm (box of 10)	DS.2940.150.20
Europa Macintosh Large Adult No. 4 154x18mm (box of 10)	DS.2940.150.25
Europa Miller Neonate No. 0 78x9.5mm (box of 10)	DS.2940.185.05
Europa Miller Infant No. 1 105x9.5mm (box of 10)	DS.2940.185.10
Europa Miller Child No. 2 158x13mm (box of 10)	DS.2940.185.15
Europa Miller Adult No. 3 198x13mm (box of 10)	DS.2940.185.20
Europa Robert Shaw Infant No. 1 112x14.5mm (box of 10)	DS.2940.235.10



Europa Miller blade profile

## EUROPA - STANDARD LIGHT LARYNGOSCOPE HANDLES

Description	Code
Europa single use laryngoscope handle Small (box of 10)	DS.2940.300.05
Europa single use laryngoscope handle Medium C (box of 10)	DS.2940.300.10



Europa Handles



Lunar Handles

## EUROPA EMS PACK

Description	Code
Europa EMS consists of Macintosh 3 & 4 and Miller 1 sizes and a reusable Lunar handle (single units)	DS.2940.920.10



Europa - EMS Pack

## Disposable standard light laryngoscope blades

The unique Europa Laryngoscope blades are virtually indistinguishable from a reusable blade. The bright, focused bulb ensures clear illumination of the airway and the rigid metal construction affords the user full control without flexion of the blade.

A clinical trial at the Royal United Hospital in Bath (UK), found Europa to be 'the best single use Laryngoscope' when compared with 5 other competitor products<sup>1</sup>.

### Europa blade features

- Sprung Ball Bearings
- Fixed Bulb will not work loose
- Individually packed in peel pouches
- Stainless steel blade for maximum rigidity
- Compatible with ISO7376/1 Standard Light Handles

### Single use standard light laryngoscope handles

The disposable Europa handle is an ideal solution for total cross infection control, removing the need to clean or sterilise handles after either routine or high risk intubations.

### Europa handle features

- Single patient use
- 'Feels' like a reusable handle
- Cannot be autoclaved, reducing risk of reuse
- Textured surface for a good grip
- Individually wrapped in a box of 10

### Reusable standard light laryngoscope handles

Our Lunar handle is a reusable conventional handle which is fully auto-clavable. The Lunar handle has the same fitting handle as the Europa handle so may be used with the Europa blades where a disposable handle is not required.

### Lunar handle features

- Have a one year guarantee
- Conforms to ISO7376/1
- Competitively priced

### Europa EMS Pack

The tough green canvas pouch contains individually wrapped products that can be replenished from normal stock. It is delivered complete with a Macintosh blade in both sizes 3 & 4, a Miller blade in size 1 and a reusable Lunar handle. The perfect solution for any crash trolley.

### References

1. Europa performed best in categories for i) easy & difficult intubation, ii) percentage of glottis opening visible and iii) minimal use of gum elastic bougie. The trial was published in the January 2003 issue of the British Journal of Anaesthesia (Vol. 90 issue 12) concludes that of blades tested the best were a reusable blade and Europa.

# Portex® Soft Seal® Laryngeal Mask Range

## ORDERING INFORMATION

Description	Size	ID Tube mm	OD Tube mm	MaxCuff Volume ml	Code
Neonates/Infants up to 5kg	1	5.3	7.8	6	100/220/100
Infants 5-10kg	1.5	6.1	9.5	8	100/220/150
Infants/Children 10-20kg	2	7.1	11.3	12	100/220/200
Children 20-30kg	2.5	8.5	13.1	17	100/220/250
Children 30-50kg	3	10.1	15.5	25	100/220/300
Adults 50-70kg	4	11.0	17.6	35	100/220/400
Adults 70kg	5	12.0	19.8	55	100/220/500



## Portex® Soft Seal® Laryngeal Mask range

Laryngeal Masks are often used as an alternative to a tracheal tube or face mask in short term anaesthesia. It is also becoming more popular for use in difficult airway scenarios or in accident and emergency procedures.

- The Portex® Soft Seal® Laryngeal Mask features the exclusive Soft Seal® Cuff which is less permeable to nitrous oxide<sup>1</sup> than that of reusable masks, reducing increase in pressure and minimising potential trauma.
- The cuff, combined with the higher atrium, helps to provide an improved seal.
- Single Use.
- Better infection control.
- Research has shown that even thoroughly cleaned reusable airway devices still contain residual protein deposits, which have the potential for cross-patient contamination.
- Ease of Access.
- Higher atrium, negating the use of epiglottis bars.
- The Portex® ---Soft Seal® Laryngeal Mask is designed to avoid the risk of blockage without the need for obstructive



epiglottis bars, allowing easy access for flexible fibre optic devices and fibre optic guided placement of tracheal tubes.

- The Portex® Soft Seal® Laryngeal Mask has been approved in studies for use in pre-hospital airway management.
- Available in paediatric sizes 1, 1.5, 2 and 2.5.

## References

- Van Zundert, A. A. J. et al. Comparison of cuff-pressure changes in LMA-Classic® and the new Soft Seal® laryngeal masks during nitrous oxide anaesthesia in spontaneous breathing patients. European Journal of Anaesthesiology 2004; 21: 547-552.

# Introducers, Stylets & Guides

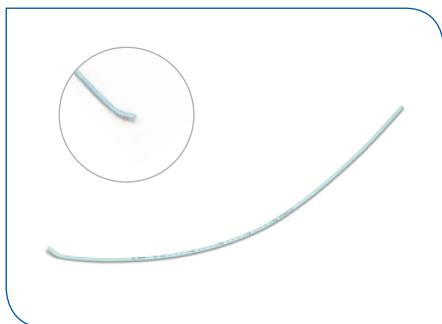
## PORTEX® SINGLE USE BOUGIE

Description	OD mm	Length mm	Code
Adult 15Fg	5.0	700	100/123/515



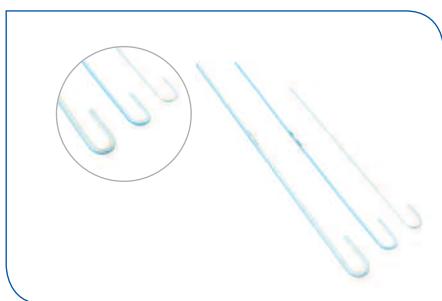
## PORTEX® VENN REUSABLE BOUGIE

Description	OD mm	Length mm	Code
Adult 15Fg	5.0	600	14-504-17



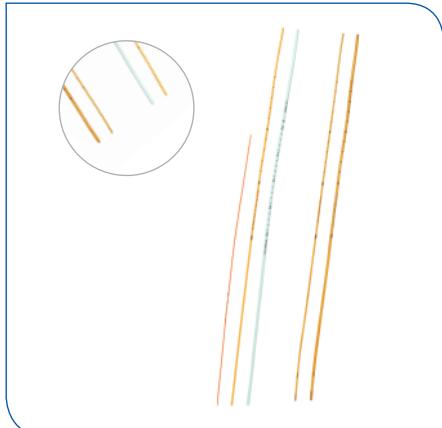
## PORTEX® ET TUBE STYLET

Description	Recommended ET Tube Size ID mm	OD mm	Length mm	Code
Large Adult	8.5 - 11.0	5.0	365	100/120/300
Adult	5.0 - 8.0	4.2	335	100/120/200
Paediatric	2.5 - 4.5	2.2	225	100/120/100
Extra Long Large Adult	8.5 - 11.0	5.0	693	100/121/300
Extra Long Adult	5.0 - 8.0	4.0	673	100/121/200



## PORTEX® SINGLE USE EXCHANGE GUIDES

Description	OD mm	Length mm	Code
Adult 15Fg	5.0	700	100/123/015
Paediatric 10Ch	3.3	700	100/125/010
Neonatal 5Ch	1.7	500	100/125/005



## PORTEX® VENN REUSABLE EXCHANGE GUIDES

Description	OD mm	Length mm	Code
Adult 15Ch	5.0	700	14-504-68
Paediatric 10Ch	3.3	700	14-504-76



## Bougies

Bougies are used during intubation of a Difficult Airway as the coudé tip can confirm correct placement through the hold up (clicks) on the tracheal rings.

- Available in 15Fg reusable and single use
- Reusable 600mm - used for over 40 years
- New single use 700mm
- Both have superior memory
- Good flexibility
- Single use will reduce risk of infection

## Stylets

Stylets are used to preform a tracheal tube prior to intubation.

- Malleable aluminium adaptation to required shape
- Available in standard and extra long lengths
- Easy insertion and withdrawal
- High density polyurethane coating in neonatal sizes
- Ivory PVC sleeve in adult sizes

## Guides

Guides (Exchange Guides) are for when a tracheal tube is exchanged.

- Available in reusable and single use
- New clear marking on Ivory PVC 15Fg Guide
- Polyurethane guides in sizes 10Ch & 5Ch

# ET Tube Material



## Your choice of material

Portex® have a unique range of ET Tube materials to meet almost every anaesthetic requirement. We understand that your choice of material is as important as the design.

- Clear PVC can identify correct intubation through 'misting'
- Siliconised PVC can assist in suctioning in an ICU
- Ivory is soft yet kink resistant for maxilla - facial and nasal intubations

- Polyurethane has no memory so is perfect for uncuffed nasal intubation
- Silicone reinforced for adverse airways
- Single Use PVC reinforced for cervical spinal to reduce the risk of cross infection

## Soft Seal® Cuff

The profile Soft Seal® cuff is made from velvet soft PVC material, giving minimal risk of trauma. Through combining the benefits of the profile cuff design with a larger cuff resting diameter, it ensures an effective seal even when selecting smaller bore tracheal tubes.

- Unique shape ensures minimal contact to the sensitive tracheal mucosa
- Strong yet thin cuffed material reduces the risk of folding and leakage
- Reduced Nitrous Oxide permeability for a more stable cuff pressure

# Tracheal Tubes with Profile Soft Seal® Cuff

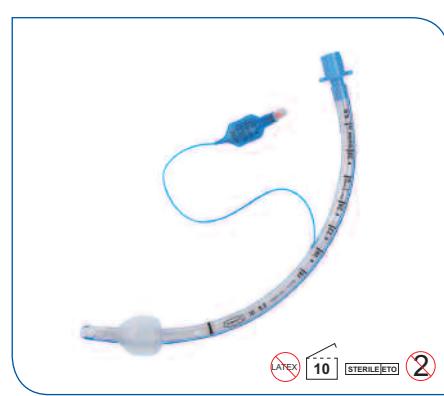
## IVORY PVC, NASAL

ID mm	OD mm	Cuff resting Diameter	Code
5.0	7.3	17	100/179/050
5.5	8.0	17	100/179/055
6.0	8.8	23	100/179/060
6.5	9.5	23	100/179/065
7.0	10.2	30	100/179/070
7.5	10.9	30	100/179/075
8.0	11.6	30	100/179/080
8.5	12.4	30	100/179/085
9.0	13.1	30	100/179/090



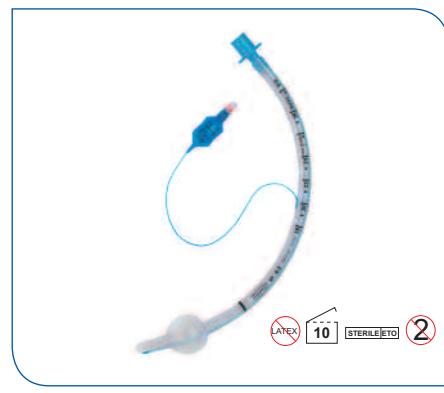
## CLEAR PVC, ORAL/NASAL, MURPHY EYE

ID mm	OD mm	Cuff resting Diameter	Code
5.0	6.8	17	100/199/050
5.5	7.4	17	100/199/055
6.0	8.2	23	100/199/060
6.5	8.8	23	100/199/065
7.0	9.6	30	100/199/070
7.5	10.2	30	100/199/075
8.0	11.0	30	100/199/080
8.5	11.6	30	100/199/085
9.0	12.3	30	100/199/090
9.5	13.0	30	100/199/095
10.0	13.7	30	100/199/100



## SILICONISED PVC, ORAL/NASAL

ID mm	OD mm	Cuff resting Diameter	Code
5.0	6.8	17	100/166/050
5.5	7.4	17	100/166/055
6.0	8.2	23	100/166/060
6.5	8.8	23	100/166/065
7.0	9.6	30	100/166/070
7.5	10.2	30	100/166/075
8.0	11.0	30	100/166/080
8.5	11.6	30	100/166/085
9.0	12.3	30	100/166/090
9.5	13.0	30	100/166/095
10.0	13.6	32	100/166/100



## Tracheal Tubes with Profile Soft Seal® Cuff

The Profile Soft Seal® Cuff combines the benefits of the profile cuff design with a larger cuff resting diameter providing the patient with optimum comfort.

- Minimal contact with the sensitive tracheal mucosa
- Large cuff diameter ensures effective seal
- Reduces movement relative to trachea during ventilation

- When deflated, cuff conforms closely to tube to minimise the risk of trauma during intubation and extubation
- Low pressure - responds rapidly to varying pressures during the respiratory cycle, securing sealing
- Reduces the risk of trauma during intubation and extubation

Every Soft Seal® profile cuffed tube is also equipped with:

- One way valve for efficient and easy inflation and deflation of cuff
- Large pilot balloon clearly shows when cuff is inflated
- An intubation Depth Marker is located 3cm proximal to the cuff to assist in the accurate placement of the tip within the trachea

# Uncuffed Tracheal Tubes

## IVORY PVC, ORAL/NASAL

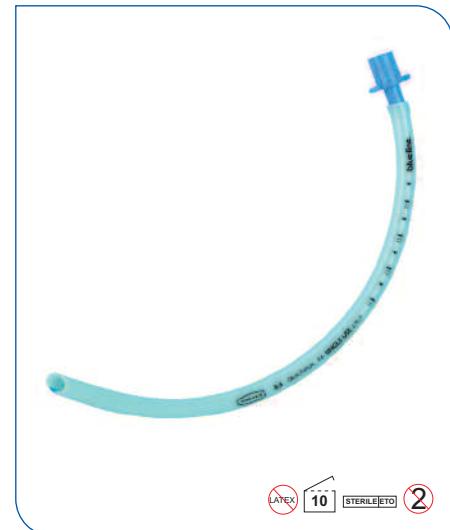
ID mm	OD mm	Code
2.5	3.6	100/105/025
3.0	4.4	100/105/030
3.5	5.0	100/105/035
4.0	5.8	100/105/040
4.5	6.6	100/105/045
5.0	7.3	100/105/050
5.5	8.0	100/105/055
6.0	8.8	100/105/060
6.5	9.4	100/105/065
7.0	10.2	100/105/070
7.5	10.9	100/105/075
8.0	11.6	100/105/080
8.5	12.4	100/105/085
9.0	13.1	100/105/090*

\*Please note: This item is made to order only, please contact Customer Services with regard to lead time.

## PAEDIATRIC, SILICONISED PVC, ORAL/NASAL CROUP TUBE, EXTRA LONG

ID mm	OD mm	Length mm	Code
2.5	3.5	220	100/112/025*
3.0	4.2	250	100/112/030*
3.5	4.8	280	100/112/035*
4.0	5.5	310	100/112/040*
4.5	6.2	330	100/112/045*
5.0	6.8	330	100/112/050*

\*Please note: This item is made to order only, please contact Customer Services with regard to lead time.



## Ivory PVC Tracheal Tube

These high quality tubes provide a direct and unimpeded airway for gases to pass to and from the lungs.

These tubes are firm enough for ease of intubation yet soften when in place to conform to the anatomy of the upper respiratory tract.

- Kink-resistant, minimises possibility of tube occlusion
- Ivory PVC minimises the risk of trauma to the nasal passages
- Comprehensive size range 2.5 - 10.0mm

to suit all patients from paediatric to adult

- Radio-opaque Blueline® for exact location of tube position
- 15mm connector conforming to ISO5356-1 ensuring full compatibility with circuit connections

## Paediatric, Siliconised PVC, Oral/Nasal Croup Tube, Extra long

This extra long paediatric tracheal tube is designed to minimise the problems associated with intubating a patient

suffering from croup, upper airway inflammation or epiglottitis.

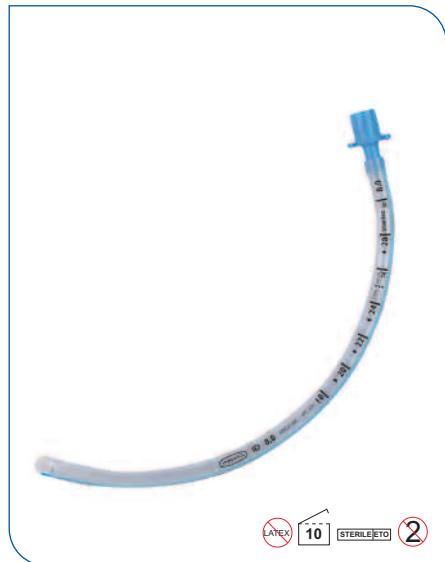
- Kink resistant, minimises possibility of tube occlusion
- Smooth formed Murphy Eye and tip for atraumatic intubation
- Comprehensive paediatric size range 2.5 - 5.0mm

# Uncuffed Tracheal Tubes

## SILICONISED PVC, ORAL/NASAL MURPHY EYE

ID mm	OD mm	Code
2.5	3.4	100/141/025
3.0	4.2	100/141/030
3.5	4.8	100/141/035
4.0	5.5	100/141/040
4.5	6.2	100/141/045
5.0	6.9	100/141/050
5.5	7.6	100/141/055
6.0	8.2	100/141/060
6.5	8.9	100/141/065
7.0	9.6	100/141/070
7.5	10.3	100/141/075
8.0	10.9	100/141/080*
8.5	11.6	100/141/085*
9.0	12.3	100/141/090*
9.5	13.0	100/141/095*

\*Please note: This item is made to order only, please contact Customer Services with regard to lead time.



## SILICONISED PVC, ORAL/NASAL

ID mm	OD mm	Code
2.0	2.9	100/111/020
2.5	3.4	100/111/025
3.0	4.2	100/111/030
3.5	4.8	100/111/035
4.0	5.4	100/111/040
4.5	6.2	100/111/045
5.0	6.9	100/111/050
5.5	7.6	100/111/055
6.0	8.2	100/111/060
6.5	8.9	100/111/065
7.0	9.6	100/111/070
7.5	10.3	100/111/075
8.0	10.9	100/111/080
8.5	11.6	100/111/085
9.0	12.3	100/111/090



## Siliconised PVC Tracheal Tube

Manufactured from implantation tested non toxic Siliconised PVC, helps to protect the delicate mucosal tissue. These tubes have a comprehensive size range 2.0 - 11.0mm to suit all patients from paediatric to adult. Also available with a Murphy Eye from size 2.5mm.

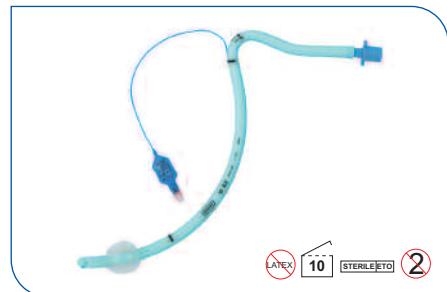
- Provides a direct and unimpeded airway for gases to pass to and from the lungs
- Firm enough for ease of intubation yet softens when in place to conform to the anatomy of the upper respiratory tract
- Manufactured from implantation tested non-toxic siliconised PVC to protect delicate mucosal tissues
- Kink-resistant minimises possibility of tube occlusion

- Radio-opaque Blueline® for exact location of tube position
- 15mm connector conforming to ISO 5356-1 ensuring full compatibility with circuit connections
- Comprehensive size range 2.0 - 11.0mm to suit all patients
- Single use, no risk of cross infection

# North Polar Preformed Tracheal Tubes

## IVORY PVC, NASAL, PROFILE SOFT SEAL® CUFF

ID mm	OD mm	Cuff resting length cm	Diameter mm	Code
6.0	8.8	27.0	23	100/133/060
6.5	9.4	27.5	23	100/133/065
7.0	10.2	28.5	30	100/133/070
7.5	10.8	29.5	30	100/133/075
8.0	11.6	30.5	30	100/133/080



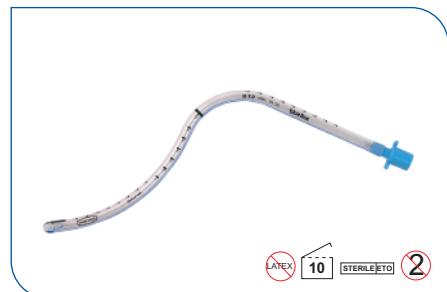
## CLEAR PVC, ORAL, PROFILE SOFT SEAL® CUFF

ID mm	OD mm	Cuff resting length cm	Tip to incisor teeth length cm	Code
6.0	8.2	23	18.0	100/131/060
6.5	8.8	23	19.0	100/131/065
7.0	9.6	30	20.0	100/131/070
7.5	10.2	30	21.0	100/131/075
8.0	11.0	30	22.0	100/131/080
8.5	11.6	30	23.0	100/131/085
9.0	12.2	30	24.0	100/131/090



## CLEAR PVC, ORAL, UNCUFFED, MURPHY EYE

ID mm	OD mm	Tip to incisor teeth length cm	Code
3.0	4.2	10.5	100/132/030
3.5	4.8	11.0	100/132/035
4.0	5.4	12.0	100/132/040
4.5	6.2	13.5	100/132/045
5.0	6.8	14.0	100/132/050
5.5	7.4	14.5	100/132/055
6.0	8.2	15.0	100/132/060
6.5	8.8	16.0	100/132/065
7.0	9.6	17.5	100/132/070



## CLEAR POLYURTHANE, NASAL, UNCUFFED

ID mm	OD mm	Tip to Nares length cm	Code
6.0	8.2	27.0	100/130/060
6.5	8.8	27.5	100/130/065
7.0	9.6	28.5	100/130/070
7.5	10.3	29.5	100/130/075
8.0	11.0	30.5	100/130/080



## Polar, North Facing, Preformed Tracheal tubes

Formerly known as the Maxillo-Facial tube. These are the tracheal tubes of choice, designed to meet the specific requirements of patients undergoing facio-maxillary surgery.

- The preformed bend lies comfortably at the nares and can be cut shorter post-operatively for easier suctioning
- The design ensures good access to the face allowing the surgeon to observe the effect of manipulation of the maxilla on facial symmetry

- Preformed north facing shape reduces the amount of connections, maximising security and improving surgical access
- Available in Profile Soft Seal® cuff and uncuffed versions for both oral and nasal intubation

# South Polar Preformed Tracheal Tubes

## CLEAR PVC, ORAL, PROFILE SOFT SEAL® CUFF, MURPHY EYE

ID mm	OD mm	Cuff resting length cm	Tip to incisor teeth length cm	Code
5.0	6.8	17	16	100/136/050
5.5	7.4	17	17	100/136/055
6.0	8.2	23	18	100/136/060
6.5	8.8	23	19	100/136/065
7.0	9.6	30	20	100/136/070
7.5	10.2	30	21	100/136/075
8.0	11.0	30	22	100/136/080
8.5	11.6	30	23	100/136/085
9.0	12.2	30	24	100/136/090



## CLEAR PVC, ORAL, UNCUFFED, MURPHY EYE

ID mm	OD mm	Tip to incisor teeth length cm	Code
3.0	4.2	10.5	100/134/030
3.5	4.8	11.0	100/134/035
4.0	5.4	12.0	100/134/040
4.5	6.2	13.5	100/134/045
5.0	6.8	14.0	100/134/050
5.5	7.5	14.5	100/134/055
6.0	8.2	15.0	100/134/060
6.5	8.8	16.0	100/134/065
7.0	9.6	17.5	100/134/070
7.5	10.2	19.0	100/134/075



## Clear PVC, Polar, South Facing Preformed, Oral, Tracheal tubes with Murphy Eye

Suitable for oral, nasal, ophthalmic and facial surgery, offering improved surgical access in numerous situations. Primarily used during head and neck surgery.

The inflation line take-off point lies outside the mouth to avoid damage to teeth and the 'South' limb is curved to avoid pressure on the chin and lower lip.

- Transparent tubes allows moisture condensation to be seen clearly
- Murphy Eye smoothly formed to avoid vocal cord damage during insertion

- Available in both uncuffed and Profile Soft Seal® cuff options
- 1cm graduations on both sides to assist with positioning of the tube

# Single Use Reinforced Tracheal Tubes

## SINGLE USE, PVC, CUFFED TRACHEAL TUBE, MURPHY EYE

ID mm	OD mm	Length mm	Code
5.0	17	259	100/110/050
5.5	17	287	100/110/055
6.0	23	297	100/110/060
6.5	23	307	100/110/065
7.0	30	318	100/110/070
7.5	30	328	100/110/075
8.0	30	338	100/110/080
8.5	30	338	100/110/085
9.0	30	338	100/110/090
9.5	30	338	100/110/095



## SINGLE USE, PVC, UNCUFFED TRACHEAL TUBE

ID mm	Length mm	Code
3.0	175	100/113/030
3.5	195	100/113/035
4.0	215	100/113/040
4.5	245	100/113/045
5.0	259	100/113/050



## PVC, Single use, reinforced, Oral/Nasal Tracheal Tubes

The Smiths Medical single use reinforced Tracheal tube has been specifically designed to reduce crushing and kinking when the patient head is extended and flexed.

It facilitates the administration of anaesthetic confidently as the airway stays patent. This tracheal tube also boasts all the advantages of a Portex® Tracheal tube and the option of a Profile Soft Seal® Cuff.

- Smoothly finished tube tip
- Atraumatic cuff welds for ease of intubation
- Flexible to conform to patients position
- Single use minimises the risk of cross infection

# Silicone Rubber Reinforced Tubes

## SMALL DIAMETER AIR-CUF REINFORCED TRACHEAL TUBE

ID mm	OD mm	Length cm	Code
2.5	4.0	14	35W025**
3.0	4.7	16	35W030
3.5	5.3	18	35W035
4.0	6.0	20	35W040
4.5	6.7	22	35W045
5.0	7.3	24	35W050
5.5	8.0	26	35W055
6.0	8.7	28	35W060*
6.5	9.4	28	35W065
7.0	10.0	30	35W070
7.5	10.4	30	35W075
8.0	11.0	31	35W080
8.5	11.8	31	35W085
9.0	12.3	31	35W090
9.5	13.3	31	35W095

\*\*Paediatric sizes TTS™ have a clear pilot balloon and TTS™ cuff

\*Adult sizes have a small diameter Aire-Cuf®



## PORTEX® REINFORCED ORAL/NASAL TRACHEAL TUBE

Description	ID mm	OD mm	Length cm	Code
Plain uncuffed	3.0	4.7	160	100/107/030
Plain uncuffed	3.5	5.4	180	100/107/035
Plain uncuffed	4.0	6	200	100/107/040
Plain uncuffed	4.5	6.6	220	100/107/045
Plain uncuffed	5.0	7.3	240	100/107/050
Cuffed Murphy Eye	5.0	7.3	275	100/109/050
Cuffed Murphy Eye	5.5	8	275	100/109/055
Cuffed Murphy Eye	6.0	8.7	285	100/109/060
Cuffed Murphy Eye	6.5	9.4	295	100/109/065
Cuffed Murphy Eye	7.0	10	305	100/109/070
Cuffed Murphy Eye	7.5	10.4	315	100/109/075
Cuffed Murphy Eye	8.0	11	325	100/109/080
Cuffed Murphy Eye	8.5	11.8	325	100/109/085
Cuffed Murphy Eye	9.0	12.4	325	100/109/090
Cuffed Murphy Eye	9.5	13.3	325	100/109/095



## Silicone Rubber reinforced Tracheal Tubes

The integral stainless steel reinforcing wire provides a safe, kink resistant airway regardless of head and neck position or manipulation of the tube.

- The small diameter Air-Cuf tube offers an air-filled cuff with the benefits of reinforcement
- Paediatric cuffed tubes have a Tight to Shaft™ (TTS) cuff and a clear pilot balloon
- Silicone rubber construction allows multiple tube reuse by autoclaving
- 15mm ISO connector
- The small diameter Air-Cuff tube has a Magill tip & inflation valve

# Neonatal/Paediatric Intubation Systems

## NEONATAL/PAEDIATRIC INTUBATION SYSTEMS AND COMPONENTS

Description	ID mm	OD mm	Code
Standard 15mm connector with side port Tube Holder	2.5	10	H4001S
Standard ISO 15mm connector with side port Tube Holder	3.0	12	H4002S
Standard ISO 15mm connector with side port Tube Holder	3.5	14	H4003S
Standard ISO 15mm connector with side port Tube Holder	4.0	16	H4004S
Standard ISO 15mm connector with side port Tube Holder	4.5	18	H4005S
Standard ISO 15mm connector with side port Tube Holder	5.0	20	H4006S
Low dead space 15mm ISO connector with side port Tube Holder	2.5		H4001PS
Low dead space 15mm ISO connector with side port Tube Holder	3.0		H4002PS
Low dead space 15mm ISO connector with side port Tube Holder	3.5		H4003PS



LATEX **10** STERILE/ETO **2**

## UNCUFFED NEONATAL/PAEDIATRIC TRACHEAL TUBES

Description	ID mm	Code
Standard 15mm connector with side port	2.5	H4021S
Standard ISO 15mm connector with side port	3.0	H4022S
Standard ISO 15mm connector with side port	3.5	H4023S
Standard ISO 15mm connector with side port	4.0	H4024S
Standard ISO 15mm connector with side port	4.5	H4025S
Standard ISO 15mm connector with side port	5.0	H4026S
Low dead space 15mm ISO connector with side port	2.5	H4021PS
Low dead space 15mm ISO connector with side port	3.0	H4022PS
Low dead space 15mm ISO connector with side port	3.5	H4023PS



LATEX **10** STERILE/ETO **2**

## Neonatal/Paediatric Intubation systems and components

The Neonatal/Paediatric Intubation system consists of a Tracheal tube, a holder and a 15mm ISO connector. All 3 components may be purchased together as a Paediatric intubation kit, or separately.

- Designed to ease the difficulties associated with neonatal intubation
- Allows for the administration of medication and surfactants
- Provides safe, quick and re-adjustable tube fixation

## Uncuffed Neonatal/Paediatric Tracheal tubes

Each tube is fitted with a side port to facilitate easy access for administration of surfactant. They are made of soft PVC with a smooth bevelled tip foratraumatic intubation and have markings and a vocal cord guide that aids the clinician in proper tube placement.

- Low dead space connector
- Improves ventilation in patients with low tidal volumes

# Tracheal Tube Holders

## TRACHEAL TUBE HOLDER, PAEDIATRIC

Size mm	Holder with tapes	Ivory PVC Oral/ Nasal tracheal tube with holder	Siliconised PVC Oral/Nasal tracheal tube with holder
2.0			100/611/020
2.5	100/603/025	100/605/025	100/611/025
3.0	100/603/030	100/605/030	100/611/030
3.5	100/603/035	100/605/035	100/611/035
4.0	100/603/040	100/605/040	100/611/040
4.5	100/603/045	100/605/045	100/611/045



## TRACHEAL TUBE HOLDER

Description	ID mm	Pack Qty	Code
Neonatal/ Paediatric Holders	2.5	10	H4051
	3.0	10	H4052
	3.5	10	H4053
	4.0	10	H4054
	4.5	10	H4055
	5.0	10	H4056
Adult Tube Holders	4.5 - 6.5	30	K1000
	7.0 - 8.5	30	K2000
	9.0 - 10.0	30	K3000



## Paediatric Tube Holder

The Paediatric Tube Holder is a simple, safe and versatile system of tube support for the ventilation of Paediatric and Neonates. Available separately or complete with a tracheal tube.

- For both oral and nasal use
- The extension tube doubles as a bite block
- Maintains unimpeded access to the nose and mouth for nursing access

## Tracheal Tube Holder

Tracheal tube holders provide secure tube fixation and have the advantages of readjustment or replacement without re-taping. The holders utilise a hypoallergenic, adhesive-backed base which affixes easily and comfortably to the patient.

- Allows readjustment without re-taping
- Slide-on locking device eliminates the need for pins, tape or sutures

# Speciality Airways

## DISPOSABLE AIRWAY

Size	Length cm	Code
00	5.0	100/320/200
0	6.0	100/320/100
1	7.0	100/320/010
2	9.0	100/320/020
3	10.0	100/320/030
4	11.0	100/320/040

## NASOPHARYNGEAL AIRWAY

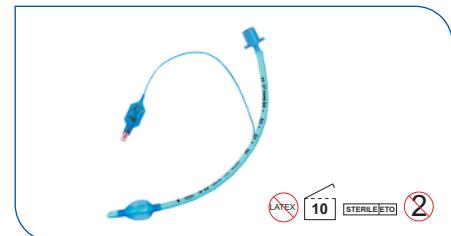
ID mm	Code
6.0	100/210/060
7.0	100/210/070
8.0	100/210/080
9.0	100/210/090

## IVORY PVC MICROLARYNGEAL TUBE

ID mm	OD mm	Code
5.0	7.2	100/190/050

## REINFORCED MICROLARYNGEAL TUBE

ID mm	OD mm	Length cm	Code
5.0	7.3	32	65W050



### Disposable Airway

This Airway maintains an unobstructed oro-pharyngeal during or following general anaesthesia and in patients who are unconscious for other reasons.

- Design of nylon bite block facilitates passage of a suction catheter
- Rigid bite block to maintain airway integrity
- Smoothly rounded edges for improved patient comfort
- Single use
- Comprehensive range of 6 sizes

### Nasopharyngeal Airway

Facilitates suctioning in intensive care and also provides an alternate airway during accident and emergency procedures when the oropharyngeal pathway is occluded.

- Maximum kink resistance helps to ensure a patent airway
- Satin smooth finish facilitates insertion
- Smooth rounded edges for increased patient comfort
- Supplied with a safety pin for the option of an enlarged flange

### Microlaryngeal Tubes

The Microlaryngeal Tube is designed for use in adult laryngeal surgery and permits accessibility, visibility and complete airway protection.

- The small diameter Microlaryngeal tube has a Magill tip & inflation valve
- The Microlaryngeal Tube has a standard profile cuff
- Both tubes are flexible and kink resistant

# Masks & Accessories

## DISPOSABLE ANAESTHETIC FACE MASK, PREMIUM AIR CUSHION

Description	Hook Ring	Code
Adult	Blue	5045
Small Adult	Yellow	5055
Child	Clear	5048
Toddler	Green	5070
Infant	None	5052
Neonatal	None	5071

## PREMIUM PLUS AIR CUSHION WITH INFLATION VALVE

Description	Hook Ring	Code
Adult	Blue	5245
Small Adult	Yellow	5255
Child	Clear	5248
Toddler	Green	5270

## ACCESSORIES

Description	Units	Code
Catheter Mount Adaptor Female 15mm	10	100/251/001
Connector - Swivel 15mm reusable	10	100/250/001
Connector Fibreoptic Bronchoscope Swivel 15mm	10	100/257/000
Connector Double Swivel	10	100/255/150
Connector - Tracheal tube set 15mm reusable	10	100/253/000
Adaptor/Connector - Face Mask Co-axial 15mm	10	100/274/000
Y Piece Connector	10	100/276/000
Catheter Mount without double swivel connector	20	100/590/000
Catheter Mount with double swivel connector	10	100/594/000
Flex Tube 6.5"	50	002837
Flex Tube with Gas Sampling Elbow 6.5"	50	002838
Cuff Inflator Pressure Gauge with Connecting Tubes	1	100/568/000
Separate connecting tubes	1	100/569/000



## Masks

Smiths Medical offers a comprehensive selection of disposable single use Anaesthesia Face Masks.

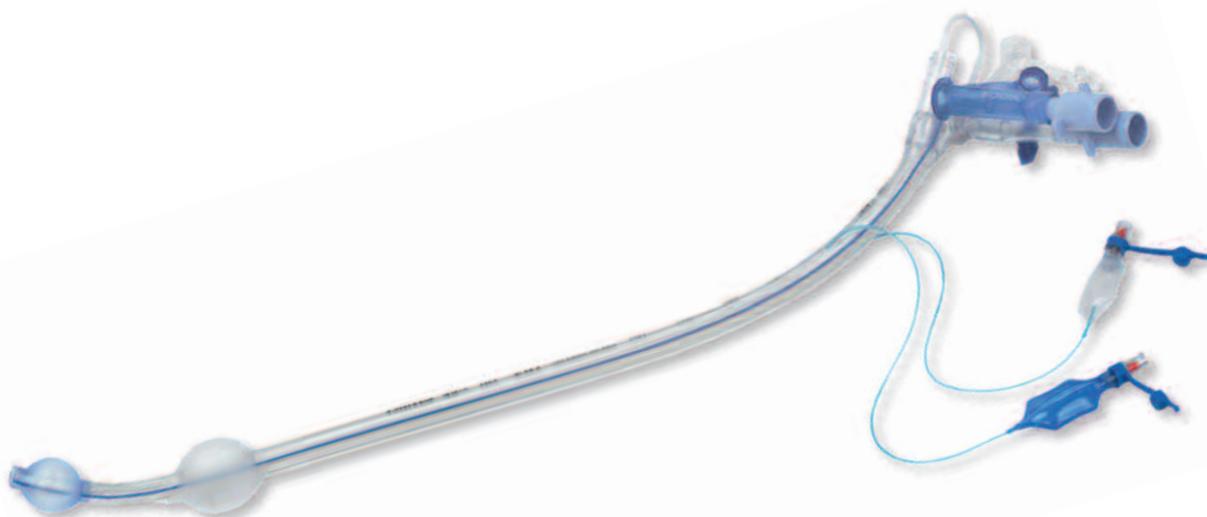
- Malleable cone conforms to patient features
- Colour coded hook rings on selected masks
- Available from neonatal to adult sizes
- Crystal clear cone allows the clinician visualisation

## Airway Accessories & Connectors

Smiths Medical manufactures a variety of high quality accessories to support effective Airway Management.

- Catheter Mounts are lightweight by design
- The versatile Cuff inflation gauge combines the advantages of controlled cuff inflation with precise pressure monitoring
- The Y piece connector is a modified Ayres T piece that has a flow tube at an acute angle to reduce bulk

# Endobronchial Tubes



Endobronchial Tube Size	Tracheal Cuff Resting Diameter	Bronchial Cuff Resting Diameter	Maximum Bronchoscope Size	Suction Catheter Size	Maximum Equivalent Airway	Units p/case	Code
28 Fr Left	23mm	12mm	3.2mm	8 Fr 2.6mm	4.6mm	1	198/28L
28 Fr Right	23mm	13mm	3.2mm	8 Fr 2.6mm	4.6mm	1	197/28R
32 Fr Left	24mm	13mm	3.8mm	10 Fr 3.3mm	5.4mm	1	198/32L
32 Fr Right	24mm	13mm	3.8mm	10 Fr 3.3mm	5.4mm	1	197/32R
35 Fr Left	26mm	18mm	4.1mm	10 Fr 3.3mm	6.0mm	1	198/35L
35 Fr Right	26mm	21mm	4.1mm	10 Fr 3.3mm	6.0mm	1	197/35R
37 Fr Left	28mm	18mm	4.4mm	10 Fr 3.3mm	6.3mm	1	198/37L
37 Fr Right	28mm	21mm	4.4mm	10 Fr 3.3mm	6.3mm	1	197/37R
39 Fr Left	29mm	23mm	4.7mm	10 Fr 3.3mm	6.6mm	1	198/39L
39 Fr Right	29mm	21mm	4.7mm	10 Fr 3.3mm	6.6mm	1	197/39R
41 Fr Left	31mm	23mm	5.0mm	12 Fr 4.0mm	7.0mm	1	198/41L
41 Fr Right	31mm	21mm	5.0mm	12 Fr 4.0mm	7.0mm	1	197/41R

## Portex® Blueline® Endobronchial Tube

Blueline® Endobronchial Tubes are specifically designed to enhance user technique and patient safety. The unique right angle circuit take-off minimises torque on the tube and directs the circuit up and over the patients head.

- The thermosensitive clear PVC tube softens at body temperature, ensuring maximum anatomical conformity and minimising risk of trauma to the tracheal mucosa

- The Carlens-style wye adaptor allows selective lung ventilation, differential lung ventilation and CPAP
- Colour-coded, labelled extension tubes and pilot balloons differentiate bronchial and tracheal airways
- Pilot balloons indicate cuff inflation status
- The Soft-Seal® high volume/low pressure cuff system minimises risk of airway trauma
- Four separately packaged Maxi-Flow® suction catheters are included
- Pre-assembly of right angle clamping tubes and single axis swivel minimise the torque and direct the circuit away from the operating field
- The tube cuff aids in verification of placement while the larger lumen allows use of larger fibreoptic bronchoscopes and suction catheters (see reference chart)

# Endobronchial Blocker Tubes



Type	Bronchial Tube Blocker	Joint Blocker	Cuff	Number of items included	Code
Type A	Outer diameter 3.00mm/ Length 600mm	●	Rectangular round shaped	1 set	BBT-A3060-EU
Type A	Outer diameter 3.00mm/ Length 600mm	●	Small spindle shaped	1 set	BBT-A3060S-EU

## COOPDECH Endobronchial Blocker Tube

COOPDECH Endobronchial Blocker Tube brings simplicity to endobronchial blockade of the right or left lung for procedures requiring low invasive one-lung ventilation. They are used in combination with single-lumen tracheal tubes which helps eliminate potential loss of the airway, commonly posed during the extubation-re-intubation of a double lumen tube.

- The clinician can easily move the blocker from one lung to another.
- Manually torque the device on the shaft for precise placement into the desired airway.
- The angled tip lets you easily choose sides for single-lung ventilation and provides a wide range of adjustment to precisely direct the blocker.
- Administration of oxygen to the collapsed lung, de-aeration, and aspiration of secreted materials can be done via the suction port.

# Sodasorb® LF



Description	Qty	Code
Pre Pak® - Pre-filled, disposable cartridges designed for easy insertion into compatible machines	1 kg/cartridge 12/case	008875
Canister Pak - Convenient, airtight foil-lined bags containing sufficient material to re-fill absorber canisters	1 kg/bag 12/case	008865
Plastic Jug - Bulk product fills reusable cartridges. Jugs are easy to open, pour and reseal	4.2 kg/jug 3/case	008855

## Safety you can see, reliability you can trust

Once exhausted or desiccated, Sodasorb® LF changes colour from white to violet. Unlike traditional CO<sub>2</sub> absorbents, the colour change is permanent. Desiccation impairs CO<sub>2</sub> absorption, and may cause extreme and hazardous heat conditions leading to the production of carbon monoxide. Sodasorb® LF should not heat up to extreme temperatures even if it desiccates, and inhibits production of carbon monoxide.

## More efficiency, more savings

Today's low flow anaesthesia systems allow hospitals to reduce their consumption of costly anaesthetics. But they also put higher demands on CO<sub>2</sub> absorbents; that's why you can count on Sodasorb® LF to be cost effective. Sodasorb® LF's unique formula delivers the efficiency you've come to expect from conventional CO<sub>2</sub> absorbents, which means both time and cost savings.

## It's the smart choice

- Long-lasting formulation.
- More efficient use of expensive anaesthetic gases.
- Uniform pellet design can result in reduced powdering.
- Can inhibit degradation of anaesthetic gases.
- Changes colour permanently, once exhausted.
- Exhibits high contrast colour change, should desiccation ever occur.

## References

- 1 Woehlck, Harvey J, MD, et. al.: Sodasorb LF Inhibits Sevoflurane and Desflurane Degradation Without Loss of CO<sub>2</sub> Absorption Efficacy; 2006

# Sodasorb®



Description	Units per case	Code
1.18kg Prepack White Granules	12	008870
1.18kg Prepack White Granules (for sampling only)	2	008871*
1.18kg Prepack Pink Granules	12	008873
1.18kg Prepack Pink Granules (for sampling only)	2	008874*
1kg ECO Bag White Granules	9	008810
1kg ECO Bag Pink Granules	9	008811
5 ltr Bottle White Granules	5	008850
5 ltr Bottle Pink Granules	5	008851
5 ltr Bottle White Granules (for Asia Pacific Market only)	5	008852

\* For sampling purposes only

## Sodasorb® CO<sub>2</sub> Absorbent

Medical grade Sodasorb® (soda lime USP-NF) is the original CO<sub>2</sub> absorbent and has been the world wide market leader for nearly 80 years. Sodasorb® is especially designed to provide excellent CO<sub>2</sub> absorption performance, and resistance to dusting.

Sodasorb® absorbent is intended for use in anaesthesia circuits / systems and respiratory therapy equipment for the purpose of removing exhaled carbon dioxide. Sodasorb® makes it possible for intended in-line gases to be rebreathed by patient.

## Product Benefits

- Colour changes when absorbent capacity is exhausted
- Unique design minimises the generation of dust particles
- Excellent CO<sub>2</sub> absorption performance
- User friendly
- Minimal resistance to gas flow
- Consistent quality
- Improved dusting resistance
- Long-lasting performance
- Pink to White and White to Violet colour change granules available

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