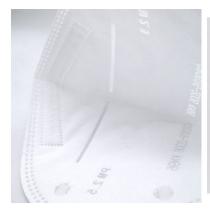
# greensley

# medical

# Personal protection equipment **KN95 PM2.5**

rev. 8







Code	Description	
KN95-CE	KN95 disposable face mask, CE mark	CE certificate n. 0P20031.TYUQ21 / ECM dated 16/03/2020 – valid till 15/03/2025 Tech construction file n. TPHB20031222272 EN149:2001+A1:2009   CE Directive R2016/425
	Packing	Individually packed units   50 units per bag   20 bags or 1000 units per carton   9 kg per carton 68*32*61 cm
	Storage temperature range	-20°C to +30°C
	Storage relative humidity range	< 80%
	Shelf life	Three years from manufacturing date
	HSCODE	6307900000
	Standard compliance	KN95 (GB2626-2006) equivalent to FFP2 (EN 149-2001) – see below

E&0E

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## **CERTIFICATION EQUIVALENCE**

Based on this comparison, it is reasonable to consider China KN95, AS/NZ P2, Korea 1st Class, and Japan DS FFRs as "equivalent" to US NIOSH N95 and European FFP2 respirators, for filtering non-oil-based particles such as those resulting from wildfires, PM 2.5 air pollution, volcanic eruptions, or bioaerosols (e.g. viruses). However, prior to selecting a respirator, users should consult their local respiratory protection regulations and requirements or check with their local public health authorities for selection guidance.

Certification/ Class (Standard)	N95 (NIOSH-42C FR84)	FFP2 (EN 149-2001)	KN95 (GB2626-20 06)	P2 (AS/NZ 1716:2012)	Korea 1 <sup>st</sup> Class (KMOEL - 2017-64)	DS (Japan JMHLW- Notification 214, 2018)
Filter performance – (must be ≥ X% efficient)	≥ 95%	≥94%	≥ 95%	≥94%	≥ 94%	≥ 95%
Test agent	NaCl	NaCl and paraffin oil	NaCl	NaCl	NaCl and paraffin oil	NaCl
Flow rate	85 L/min	95 L/min	85 L/min	95 L/min	95 L/min	85 L/min
Total inward leakage (TIL)* – tested on human subjects each performing exercises	N/A	≤ 8% leakage (arithmetic mean)	≤ 8% leakage (arithmetic mean)	≤ 8% leakage (individual and arithmetic mean)	≤ 8% leakage (arithmetic mean)	Inward Leakage measured and included in User Instructions
Inhalation resistance – max pressure drop	≤ 343 Pa	≤ 70 Pa (at 30 L/min) ≤ 240 Pa (at 95 L/min) ≤ 500 Pa (clogging)	≤ 350 Pa	≤ 70 Pa (at 30 L/min) ≤ 240 Pa (at 95 L/min)	≤ 70 Pa (at 30 L/min) ≤ 240 Pa (at 95 L/min)	≤ 70 Pa (w/valve) ≤ 50 Pa (no valve)
Flow rate	85 L/min	Varied – see above	85 L/min	Varied – see above	Varied – see above	40 L/min
Exhalation resistance - max pressure drop	≤ 245 Pa	≤ 300 Pa	≤ 250 Pa	≤ 120 Pa	≤ 300 Pa	≤ 70 Pa (w/valve) ≤ 50 Pa (no valve)
Flow rate	85 L/min	160 L/min	85 L/min	85 L/min	160 L/min	40 L/min
Exhalation valve leakage requirement	Leak rate ≤ 30 mL/min	N/A	Depressurizatio n to 0 Pa ≥ 20 sec	Leak rate ≤ 30 mL/min	visual inspection after 300 L/min for 30 sec	Depressurizatio n to 0 Pa ≥ 15 sec
Force applied	-245 Pa	N/A	-1180 Pa	-250 Pa	N/A	-1,470 Pa
CO <sub>2</sub> clearance requirement	N/A	≤ 1%	≤ 1%	≤ 1%	≤ 1%	≤ 1%

<sup>\*</sup>Japan JMHLW-Notification 214 requires an Inward Leakage test rather than a TIL test.

Source: 3M Personal Safety Division, technical bullettin "Comparison of FFP2, KN95, and N95 and Other Filtering Facepiece Respirator Classes" January 2020, Revision 2 – http://multimedia.3m.com

### **PACKAGING**



(a) = product



(b) = individual packing of (a)



(c) = 50 items of (b) bag



(d) = 20 bags of (c) - total 1000 units of (b)

#### **MANUFACTURER'S CERTIFICATES**









Respiratory protective devices — Filtering half masks to protect against particles — Requirements, testing,marking  Classification — Particle filtering half masks are classified according to their filtering efficiency and their maximum total inward leakage. There are three classes of devices. FFP1, FFP2 and FFP3.  The protection provided by an FFP2 - or FFP3 — device includes that provided by the device of lower class or classes.  6 Designation — Particle filtering half masks meeting the requirements of this European Standard shall be device of lower the following magner:  Particle filtering half masks meeting the requirements of this European Standard shall be device of lower the following magner:  Particle filtering half masks meeting the requirements of the European Standard shall be device of lower the following magner:  Particle filtering half masks Elu 10 — ear of publication of the where or is an opport for one—ex-value fault be litering half masks).  7 Requirements  7.1 General — In a factor illustry and the litering half masks in a factor of the particle filtering half mask is classed in this European Standard are expressed as nominal in a factor illustry and the particle filtering half mask is under the requirements.  7.2 Nontinal values and tolerances — In a factor of the particle filtering half mask is often the subject to a tolerance of — 5% Unless otherwise specified the an bin of the meeting half be subject to a tolerance of — 5% Unless otherwise specified by the manufacturer.  7.3 Visual inspection  The visual inspection shall also include the marking and the information supplied by the manufacturer.  7.4 Packaging — Particle filtering half mask is designed to be used.  Ruth particle filtering half mask is designed to be re-usable, the materials used shall withstand the cleaning and disinfecting agents and procedures to be specified by the manufacturer.  7.5 Practical performance — Packaging — Particle filtering half mask is designed to be used.			No: XMT02020	01253LY/PPE
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Subject to an accuracy of 大   7.3 Visual inspection   The visual inspection shall also include the marking and the information supplied by the manufacturer.  7.4 Packaging   Particle filtering half masks shall be offered for sale packaged in such a way that they are protected against mechanical damage and contamination before use.  Materials used shall be suitable to withstand handling and wear over the period for which the particle filtering half mask is designed to be used.  7.6 Cleaning and disinfecting   If the particle filtering half mask is designed to be re-usable, the materials used shall withstand the cleaning and disinfecting agents and procedures to be specified by the manufacturer.  7.7 Practical performance   7.8 The particle filtering half mask shall underse exertical		be 115 12 ( and the tay restrict small be	#	NAT
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Particle filtering half masks shall be offered for sale packaged in such a way that they are protected against mechanical damage and contamination before use.    Material   唐山市防护用品有限公司   Materials used shall be suitable to withstand handling and wear over the period for which the particle filtering half mask is designed to be used.  7.6   Cleaning and disinfecting   If the particle filtering half mask is designed to be re-usable, the materials used shall withstand the cleaning and disinfecting agents and procedures to be specified by the manufacturer.*	7.4			-/4
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Materials used shall be suitable to withstand handling and wear over the period for which the particle filtering half mask is designed to be used.  7.6 Cleaning and disinfecting  If the particle filtering half mask is designed to be re-usable, the materials used shall withstand the cleaning and disinfecting agents and procedures to be specified by the manufacturer.*  7.7 Practical performance	25			<u> </u>
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particle filtering half mask is designed to be used.  7.6 Cleaning and disinfecting  If the particle filtering half mask is designed to be re-usable, the materials used shall withstand the cleaning and disinfecting agents and procedures to be specified by the manufacturer."  7.7 Practical performance  The particle filtering half mask shall underse exection.	1		(国)	W. W.
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re-usable, the materials used shall withstand the cleaning and disinfecting agents and procedures to be specified by the manufacturer.*  7.7 Practical effection half mask shall underso practical.	7.6		4	1.
cleaning and disinfecting agents and procedures to be specified by the manufacturer."  7.7 Practical performance		if the particle filtering half mask is designed to be	7	
be specified by the manufacturer.*  7.7 Practical performance  The partials filtered half mask shall underse practical.				P
7.7 Practical performance -		be specified by the manufacturer.*		
The particle filtering half mask shall undergo practical	7.7	Practical performance		-/
performance tests under realistic conditions.		The particle filtering half mask shall undergo practical		/P

		/	/
1		No: XMT0202	001253LY/PPE
市防护用品	These general tests sanya the purpose of checking	唐山市防护用品有具	8次司
/ \	the equipment for imperfections that cannot be determined by the tests described elsewhere in this		
C	standard.		
7.8	Finish of parts		1.
	Parts of the device likely to come into contact with the wearer shall have no sharp edges or burrs.		P
7.9	Leakage	(	- ×
7.9.1	Total inward leakage		- /
	The laboratory tests shall indicate that the particle filtering half mask can be used by the wearer to protect with high probability against the potential hazard to be expected.	indicated	P
7.9.2	Penetration of filter material		
市防护用品。 7.10	The penetration of the filter of the particle filtering half mask shall meet the requirements of Table 1 patibility with skin Materials triat may come into contact with the wearer? • skin shall not be known to be likely to cause irritation or any other adverse effect to health.	MSelfabli p fi	海
7.11	Flammability The material used shall not present a danger for the wearer and shall not be of highly flammable nature.		P
7.12	Cart or dickide content of the inhalation by A.  The calbon diquide content of the inhalation air (dead sprice) shall not exceed an average of 1,0 % (by lightness).	吏用	P
7.13	Head harness		23
市防护用品	The head harness shall be designed so that the particle filtering half mask can be donned and removed easily.	唐山市防护用品有	R公司 P
7.14 7.15	Field of slon  The field of vision is ac eptable a determined so in practical performance tests  Exhalation valve(s)	聿无	效
1.10	A particle filtering half mask may have one or more exhalation valve(s), which shall function correctly in all orientations		Р
7.16	Breathing resistance	計畫	1011
	The breathing resistances apply to valved and valveless particle filtering half masks and shall meet the requirements of Table 2.	requirements of lable 2.	-
7.17.1	General 原山市防护用品有限公司	鷹山市防护用品有1	TO THE REAL PROPERTY.
	!For single shift use devices, the clogging test is an optional test. For re-usable devices the test is mandatory."	THE STATE OF THE S	Р
7.17.2	Breathing resistance	7	-
7.17.2.1	Valved particle filtering half masks After clogging the inhalation resistances shall not		-/
	exceed FFP1: 4 mbar FFP2: 5 mbar		P
	FFP3: 7 mbar		

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7MX 9 9 +	Malweless particle filtering half masking公司	唐山市防护用品有限公司 -
UTT 107 #1 581 661 741	After clogging the inhalation and exhalation	廣山中的扩出血質核公司
	resistances shall not exceed	
	FFP1: 3 mbar	/ \
	FFP2: 4 mbar	P
	FFP3: 5 mbar	
-	at 95 I/min continuous flow.	
7.17.3	Penetration of filter material	
	All types (valved and valveless) of particle filtering	
	half masks claimed to meet the clogging requirement shalf also meet the requirements given in 7.9.2, for	P
	the Penetration test according to EN 13274-7, after	
	the clogging treatment.	
7.18	Demountable parts	
市防护用品有	Will demountable partir (if fitted) shall be readily	唐山市防护用品有限公司_P
10	connected and secured, where possible by hand.	
8.1	Tes ing	H + 151
0.1	If no special measuring devices and methods are	
	specified, commonly used devices and methods	P
	shall be used.	
8.2	Visual inspection	
Lone	The visual inspection is carried out where	
	appropriate by the test house prior to laboratory or	
8.3	practical performance tests.  Conditioning	THE !
8.3.1	Simulated wearing treatment	Z/13/ .
	Conditioning by simulated wearing treatment shall be	р
	形态阈ed out by the follewingspirates有限公司	唐山市防护用品有限公司
8.3.2	Temperature conditioning	. /
	Expose the particle litering half masks to the	中一一一
	following thermal cycle: a) for 24 tuto a dry time sphere of (70 ± 3) ° C;	上 ファ シャー
	b) for 24 h to a remperature of (30 ± 3) " C;	モノしノス
8.3.3	Mechanical strength	
	Conditioning shall be done in accordance with EN	P
	143.	
8.3.4	Flow conditioning	(前題)
	A total of 3 valved particle filtering half masks shall be tested, one as received and two temperature	in accordance with
	conditioned in accordance with 8.3.2.	8.3.2.
8.4	Practical performance	一
市内海纳用品有	General 唐山市防护用品有限公司	鷹山市防护用品有限公司。
	A total of 2 particle filtering half masks shall be	(自公本)
K	tested: both as received.	EVE
8.4.2	Walking test	/ .
	The subjects wearing normal working clothes and wearing the particle filtering half mask shall walk at a	Z.   X.
	regular rate of 6 km/h on a level course. The test	P
	shall be continuous, without removal of the particle	
	filtering half mask, for a period of 10 min.	
8.4.3	Work simulation test	1
	The particle filtering half mask shall be tested under	within a total
L	conditions which can be expected during normal	working time of 20

			/
1		No: XMT020200	1253LY/PPI
市防护用品本	luge During this test the fellowing astivities shall be	唐山市防护用品有限。	同
	carried out in simulation of the practical use of the		
/ "	particle filtering half mask. The test shall be		100
8.5	completed within a total working time of 20 min.		
8.5.1	Leakage General test procedure	/	1.
8.5.1.1	Total inward leakage	<del></del>	-
0.0.1.1	A total of 10 test specimens shall be tested: 5 as		
	received and 5 after temperature conditioning in	in	_ /
	accordance with 8,3.2.	accordance with 8.3.2.	P/
		0,3,2.	
8.5.1.2	Test equipment		
800	The test atmosphere shall preferably enter the top of		
	the enclosure through a flow distributor, and be		-
市防护用品有	directed downwards averages head of the test subject at a minimum flow rate of 0, 12 m/s. The	唐山市防护用品有限的	印
17	concentration of the test agent inside the effective		-
1	working volume shall be checked to be	<del>   </del>	TI
, 1/.	homogeneous. The flow rate should be measured		
	close to the subject's head.		13
8.5.1.3	Test procedure		-/
	Ask the test subjects to read the manufacturer's		×
	fitting information and if more than one size of		/
	particle filturing half mask is manufactured, ask the test subject to celect the size deemed by him to be	75 HH	
	the most appropriate. If necessary the test supervisor	# HH	/ P
V	shall show the test subjects how to lit the particle	X/11/	
1	filtering half mask correctly in accordance with the		
5防护用品有	Plant C. W	康山市防护用品有限:	27
8.5.2	Method	- /	
8.5.21	Principle	<del>-</del>	1 1
	The subject wearing the particle filtering half mask under lest walks on a treadmill over which is an	T	SAT
-	enclosure	上 / 1.	V'X
8.5.2.2	Test equipment		1
8.5.2.2.1	Aerosol generator	1	- 1
A STATE OF THE PARTY OF THE PAR	The NaCl aerosol shall be generated from a 2 %		
	solution of reagent grade NaCl in distilled water. An	W.E	
	atomizer equivalent to the type described should be	尚重加	WA.
	used. This requires an air flow rate of 100 l/min at a	100	1
1 2	pressure of 7 bar. The atomizer and its housing shall be fitted into a duct through which a constant flow of	1	-BE
	nicle maintained It may be adapted to best or		200
市防护用品有	dehumidify the air in order to obtain complete drying	唐山市防护用品有限。	DEP
/	of the aerosol particles.	<b>人</b> 原宏	VX
8.5.2.2.2	Test agent	- W	
	The mean NaCl concentration within the enclosure	1	
	shall be (8 $\pm$ 4) mg/m3 and the variation throughout	1.	
	the effective working volume shall be not more than		P
	10 %. The particle size distribution shall be 0,02 ym		,
	to 2 µm equivalent aerodynamic diameter with a		/
	mass median diameter of 0,6 μm.		/
8.5.2.2.3	Flame photometer		/-
	A flame photometer shall be used to measure the	1 2	P



/		No: XMT0202001253LY/PF
- OF 16 DI D +	impressary to dilute the sample with pleasair.	
8.5.2.2.7	Sampling of enclosure concentration	唐山市防护用品有限公司
0.0.2.2.7	The enclosure aerosol concentration is monitored	
ł	during the tests using a separate sampling system,	
	to avoid contamination of the particle filtering half	P
	mask sampling lines. It is preferable to use a	
	separate flame photometer for this purpose.	
8.5.2.2.8	Pressure detection probe	- 3
	A second probe is fitted near to the sample probe	p/
2522	and is connected to the pressure sensor.	· /
8.5.2.3	Expression of results	1.
1	The leakage P shall be calculated from measurements made over the last 100 s of each of	
1 2	the exercise periods to avoid carry over of results	
ok Richam P Y	Mrgen one exercise to ine ship fine man and m	唐山市防护用品有限公司 P
HI WIT HIGH	PA TON TON TON THE PROPERTY OF	■ 四山8011-田94日832日 ·
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11		
, 1/2	Lwhiled C	
	C1 is the challenge concentration	
	C2 is the measured mean concentration in the breathing zone of the test subject	. \
	tIN is the total duration of inhalation	
	tEX 8 the total duration of exhalation	
8.6	Flammability	35 HH /-
	A total of four particle tiltering half masks shall be	
k	tested two in the state as received and two after	w accordance with P
1	temperature conditioning in accordance with 8.3.2.	63.2.
8.7	Carbon dioxide content of the inhalation air	唐山市防护用品有限公司
/ \	A total of 3 particle filtering hair masks shall be	P
8.8	tested: all 3 as received,  Strength of attachment of exhalation valve housing	+ L
0.0	A total of three particle, litering half-masks shall be	TX TX
	tested one as received one temperature	$\pm$ $/$ $/$ $\times$ $\times$
/	conditioned in accordance with 8.3.2 and one after	T/0/2
5,600	the test described for mechanical strength in EN 143	
8.9	Breathing Resistance	- /
8.9.1	Test samples and fixture	
8.9.1.1	Valveless particle filtering half masks	( ) ( ) ( )
	A total of 9 "valveless particle filtering" half masks	The state of the s
1	shall be tested:	W - W
1	3 as received, 3 after temperature conditioning in	曲
市防护用品有	accordance with 8.3.2 and 3 after the test for simulated wearing in accordance with 8.3.1	唐山市防护用品有限公司与口
8.9.1.2	Valved particle filtering half masks	THE STATE OF THE S
9.0.1.2	A total of 12 valved particle filtering half masks shall	E W W
f	be tested: 3 as received, 3 after temperature	
	conditioning in accordance with 8.3.2, 3 after the test	/ P
	for simulated wearing in accordance with 8.3.1 and	
	3 after the flow conditioning in accordance with 8.3.4.	
8.9.2	Exhalation resistance	- /
	Seal the particle filtering half mask on the Sheffield	
	dummý head. Meàsure the exhalation resistance at the opening for mouth of the dummy head using the	P
	adapter shown in Figure 6 and a breathing machine	
1	adapter anown in Figure 5 and a breathing machine	1

\ /		No: XMT020200	1253LY/PP
市防护用品有	ledjusted to 25 cyclesiminand 和品物吸收可or a	唐山市防护用品有限	公司
/ /	continous flow 160 l/min. Use a suitable pressure		
	transducer.		
8.9.3	Inhalation resistance		-
	Test the inhalation resistance at 30 l/min and 95 l/min		P
5.45	continuous flow.		
8.10	Clogging		- /
8.10.1	Principle The delegation A total of 2		
	The test aerosol shall be dolomite. A total of 3 particle filtering half masks shall be tested: 1 as received and 2 after temperature conditioning in accordance with 8.3.2.	\	P
8.10.2	Test equipment		
0.10.2	A scheme of a typical apparatus is given in Figure		-
市防护用品有	成员The working area of the test chambes has a suggested square section of 650 mm × 650 mm. Test our ditions	唐山市防护用品有限	2∃ P
	Dust: DRB 4/15 defomite		1
リリト	The size distribution of dolomite dust is given in Table.	given in Table 3.	-
	3.	given in rable 5.	7-
8.10.4	Test procedure		- /
	Convey dust from the distributor to the dust chamber		P
	where it is dispersed into the air stream of 60 m3/h.		-/-
8.10.5	Assessment of clogging	<del>75</del> HH	1
\ /	Following the exposure, measure the breathing resistance of the particle filtering half mask using clean air. Then measure the liner penetration in accordance with 8.11.	V accordance with 8,11.	Р
被讨护用品有	限Permetration of filter neutertens护用品有限公司	唐山市防护用品有限	公司 -
其	The device shall be mounted in a leaktight manner on a suit ble ad apt it and subjected to the test(s), east in a state of the new central could affect filter penetration, alues such as valves and harness attachmen points are exposed to the challenge aerosol.  Marking	聿无:	效
9.1	Packaging		-
5.1	The following information shall be clearly and durably marked on the smallest commercially available packaging or legible through it if the packaging is transparent.	國加市馬	
9.1.1	The name, trademark or other means of identification		#
	potthe manufacturer qualify明品有限公司	廣山市防护用品有限	CENTO
9.1.2	Type-identifying marking.	Aus	-184
9.1.3	Classification The appropriate class (FFP1, FFP2 or FFP3)	后外	
	followed by a single space and then: "NR" if the particle filtering half mask is limited to single shift use only. Example: FFP3 NR, or "R" if the particle filtering half mask is re-usable. Example: FFP2 R D."	FFP2	P
9.1.4	The number and year of publication of this European Standard.		1
9.1.5	At least the year of end of shelf life. The end of shelf life may be informed by a pictogram as shown in	1 5	P

#### **DISTRIBUTOR'S CERTIFICATES**

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#### **EC Certificate**

Production Quality Assurance System
Directive 93/42/EEC on Medical Devices (MDD), Annex V
(Devices in class I in sterile conditions, sterilised systems or procedure packs)

No. G2S 095912 0009 Rev. 00

Manufacturer

TO BE DISCLOSED

Facility(ies):

Product Category(ies): Gauze Pads, Disposable Shoe Covers, Gauze Rolls, Disposable Sterile Surgical Masks, Disposable Sterile Surgical Caps, Disposable Sterile Surgical Gown, Disposable Sterile Surgical Drapes, Disposable Sterile Bed Sheet, Disposable Sterile Pad, Disposable Sterile Towel

The Certification Body of TÜV SÜD Product Service GmbH declares that the aforementioned manufacturer has implemented a quality assurance system for manufacture in accordance with MDD Annex V. This quality assurance system covers those aspects of manufacture concerned with securing and maintaining sterile conditions of the respective devices / device categories and conforms to the requirements of this Directive. It is subject to periodical surveillance. See also notes overleaf.

Report No.:

SH18101608

Valid from: Valid until: 2019-04-26 2022-03-12

Date,

2019-04-26

Stefan Preiß

1. Purmil

Page 1 of 1

TÜV SÜD Product Service GmbH is Notified Body with identification no. 0123

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TÜV®





#### Certificate

No. Q6 095416 0009 Rev. 01

Holder of Certificate: TO BE DISCLOSED

Certification Mark:



Scope of Certificate:

Production and Distribution of Surgical Bandages, Disposable PE Film Gloves, Medical Wraps, Disposable Suction Catheters, Disposable Rubber Surgical Gloves, Nebulizer Masks, Connecting Tubes with Yankauer Handle, Humidification Bottle, Anesthesia and Breathing Circuit, Disposable Sterile Infusion Sets, Three-way Stopcocks, Disposable Surgical Blades, Disposable Sterile Blood Lancets, Oxygen Masks with Reservoir Bags, Gauze Pads, Sterile Vaginal Dilators for Single Use, Disposable Syringes, X-Ray Detectable Gauze Pads, Disposable Shoe Covers, Gauze Rolls, Disposable Sterile Surgical Masks, Disposable Sterile Surgical Caps, Disposable Sterile Surgical Gown, Disposable Sterile Surgical Drapes, Disposable Sterile Bed Sheets, Disposable Sterile Pads, Disposable Sterile Towel, I.V. Catheters, Disposable Endotracheal Tubes, Disposable Urethral Catheters, Disposable Nasal Oxygen Cannulas, Disposable Stomach Tubes, Laryngeal Masks, Anesthesia Masks and Oxygen Masks

The Certification Body of TÜV SÜD Product Service GmbH certifies that the company mentioned above has established and is maintaining a quality management system (excluding subclause 7.3), which meets the requirements of the listed standard(s). See also notes overleaf.

Report No .: SH19108609 Valid from: 2020-03-14 Valid until: 2023-03-13

2020-02-11

Christoph Dicks

Head of Certification/Notified Body

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Date,

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### Certificate

No. Q6 095416 0009 Rev. 01

Applied Standard(s): EN ISO 13485:2016

Medical devices - Quality management systems -

Requirements for regulatory purposes

(ISO 13485:2016) DIN EN ISO 13485:2016

Facility(ies):

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