ALEX BREUER GMBH

I N D U S T R I E V E R P A C K U N G E N
Dieselstr. 15, 50859 Köln-Lövenich
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GBOX Standard
4G/4GV Dangerous Goods Packaging

Usage Instructions according
9.4.2 COA/6.1.1.5 ADR/6.0.1.4 IATA-DGR/6.1.1.4. IMDG Code

Article no 93252000.01 – inner dimensions 325 x 245 x 300 mm

4G Approval – page 2

4GV Approval – page 4

For the fully compliant use of this packaging please refer to the relevant regulations for the chosen mode of transport and the certificate of approval (COA).

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Usage Instructions – 4G Packaging

Article no	93252000.01
Report no	1951
Approval marking	**4G/X17 Y25 Z35/S/(*)/D/BAM 5514-GBOX**
	(*) the last two digits of the year of manufacture
	Length Width Height
Inner dimensions :	325 x 245 x 300 mm
Inner packagings	Standard inner packagings (PE bag and plastic bottles filled with standard filling material (Glysantin or plastic granules plus shot))

Approved gross weight:	
PG I	17 kg
PG II	25 kg
PG III	35 kg
Tare	0,53 kg
Closure	50 mm GBOX Adhesive Tape
	For application see fig. 1, for technical data of the adhesive tape please refer to annex 1

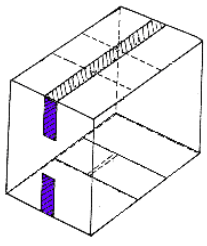

Fig. 1

Cushioning material	n/a
Quantity cushioning mat.	n/a

Stacking:	
BCT static	290 kg
BCT dynamic	4700 N

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Usage Instructions – 4G Packaging

Conditions of use:

This packaging hast to be used as described in this manual.

The listed packagings have been tested in combination with the inner packagings described above. Using other than the originally tested combination, which usually is the case, technical rules (TRV005) apply. In this case make sure that the inner packaging used in combination with the UN carton is as good as the one tested previously by the manufacturer. We recommend testing your packaging in our testing facilities at a minimal charge.

If the packaging is closed with an adhesive tape deveating from the specification mentioned above, further testing and documentation is required.

The below listed cartons are approved for shipment of dangerous goods for sea-, air-, rail- and road traffic as far as 4G packaging (fibreboard box) is applicable. The cartons carry the appropriate UN approval number. Shipment of dangerous goods is subject to the following rules and regulations: IMDG-Code (Sea), IATA-DGR, ICAO-TI respectively (Air), RID (Rail) and ADR (road).

Transfer of the approval number to other packagings is not permitted.

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Usage Instructions – 4GV Packaging

Article no	93252000.01
Report no	303
Approval marking	**4GV/X8.9/S/(*)/D/BAM 11286-GBOX**
	(*) the last two digits of the year of manufacture
	Length Width Height
Inner dimensions:	325 x 245 x 300 mm
Inner packgings :	1 x 1 litre glass bottle
Approved gross weight	
PG I:	8,9 kg
Tare:	0,53 kg
Closure:	Slot catch with 50 mm GBOX tape

For application see fig. 1, for technical data of the adhesive tape please refer to annex 1

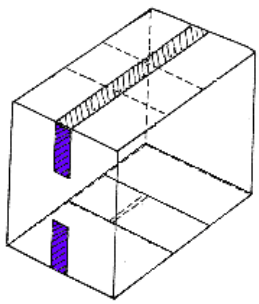

Fig. 1

Cushioning material:	Vermiculite
Quantity cushioning mat.:	3,9 kg

The orientation of the inner packagings has to be according to annex 2.

Stacking:	
BCT static	110 kg
BCT dynamic	4700 N

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Usage Instructions – 4GV Packaging

Conditions of use:

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If the packaging is closed with an adhesive tape deveating from the specification mentioned above, further testing and documentation is required.

The below listed cartons are approved for shipment of dangerous goods for sea-, air-, rail- and road traffic as far as 4G packaging (fibreboard box) is applicable. The cartons carry the appropriate UN approval number. Shipment of dangerous goods is subject to the following rules and regulations: IMDG-Code (Sea), IATA-DGR, ICAO-TI respectively (Air), RID (Rail) and ADR (road).

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Annex 1

Technical Data Sheet

GBOX UN Tape 50 und 75 mm width
71000050.16 / 71000075.02

Product / Type	D 10
Substrate	PP (glass fibre reinforced, laminated)
Caliper	125 µm + - 5%
Tensile Strength	60 kg /25mm + - 5%
Adhesion	2,5 kg/25mm +- 10%
Colour	transparent

These values represent sample averages measured during production and are not legally binding.

12.04.2000

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Annex 2

Orientation of the glass bottles during the 4GV test: