



Member of Q-InPaLab® Global Quality Association of Independent Packaging Laboratories Authorized Laboratory for Packagings and IBCs of Dangerous Goods. Authorized Third Party Inspectors

Date of test Date of expiry

2.12.2021 2.12.2024

Number of pages

B/B

Test Certificate No. 12238.3/21-12

This Certificate is only valid when printed in colour and complete with all 3 pages.

Applicant

Raficon Trade SRL

Aleea Industriilor Nr. 2, 120068, Buzau, Romania

Test pieces

Flexible Intermediate Bulk Container - SWL = 2000 kg, SF = 5:1

Single trip FIBC for non-dangerous goods acc. ISO 21898

Design

Manufacturer's type designation N/A

Dimensions (95 cm x 95 cm) x 120 cm

Volume 1200 litres

Tare 2040 g

Body fabric Polypropylene 230 g/m², uncoated ¹⁾, white flat woven fabric layers without coloured

characterization

Suspension

Four white PP-webbings (100 mm wide, 54 g/m), sewn into the vertical seams in a length of

30 cm / 115 cm, the webbings are folded and fixed by a seam

Details

Four vertical seams, two horizontal seams at the bottom (U-panel design) / overlock + chain stitching / fabric folded in all the seams / open top ²⁾ / top surrounded by a PP-webbing (30 mm

wide, 12 g/m) / no inliner / no discharge spout 2)

Kind of tests

Type Tests according to ISO 21898

Cyclic top lift test acc. Annex B

Test c Compression test acc. Annex C

Test conditions

Charging with plastic granules (filling height approx. 115 cm), load application with piston and pressure plate (d = 90 cm), rate of load application 70 kN/min.

Cyclic load and

load to failure

Sample a

Test a

After 30 cycles of load application to P_c = 40 kN (4080 kg) no visible damages occurred in the test piece. The load has then been increased until failure. When reaching a load of

 $P_h = 113,7 \text{ kN } (11.590 \text{ kg})$ a webbing tore at the top seam.

Compression

Sample b

After six hours compression by $P_k = 80 \text{ kN}$ (8160 kg) no visible damages occurred in the test

Test result

A safe working load SWL = 2000 kg/SF = 5:1 is allowable.

Statement of conformity

The FIBCs tested comply with the requirements of ISO 21898. FIBCs of this design type are in a condition for safe operation.

Notes

This certificate is restricted to FIBCs produced by Raficon Trade SRL.

All material weights are minimum weights and may not be lower than the values shown. Test diagram and photo of a test piece see page 2. This certificate expires on 2.12.2024.

1) Raw material: Pure virgin polypropylene (statement of the manufacturer)

2) "Directions for use referring to this certificate" see page 3.

Competent Engineer



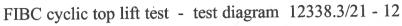
Head of Institute

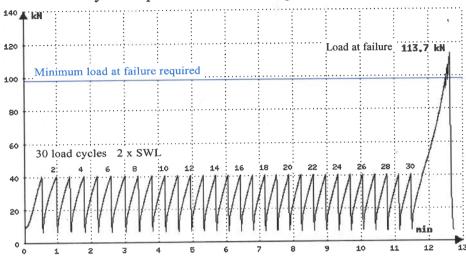
Dr. Herbert Kielbassa



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Project data

Applicant : Raficon Trade SRL

Test piece : FIBC 95 cm x 95 cm x 120 cm

Safe working load : SWL = 2000 kg

Safety factor : SF = 5:1

Test data

+ 49 531 33 90 - 11 + 49 531 33 90 - 13

Phone Telefax Test date : 2.12.2021 Test Standard : ISO 21898

Load at failure : Pb = 113,7 kN = 11.590 kg

e-Mail labordata@labordata.com Internet www.labordata.com



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Directions for use referring to this certificate

This certificate covers FIBCs of like design, manufactured using like materials and methods of construction as set down in this certificate and showing dimensions as listed below and in the certificate. The use of other methods or components may render the certificate invalid. It is the responsibility of FIBC manufacturers to ensure the samples tested are representative of the production.

Allowed (covered by this certificate)	Not allowed (not covered by this certificate)	
	Base with discharge spout	
Base dimensions of between 95 cm x 95 cm and 105 cm x 105 cm provided the same geometry is maintained	Base dimensions smaller than 95 cm x 95 cm Base dimensions larger than 105 cm x 105 cm	
Bag height 120 ± 2 cm	Bag heights diverging from 120 ± 2 cm	
Use for one filling and one discharge only	Re-use of the FIBCs	
Open top or any other design of top construction	Manufacture after expiry date of this certificate: 2.12.2024	

Label

All FIBCs shall be durably marked by means of a permanently attached and easily visible and readable label. The layout of the label referring to this certificate shall be as shown below with the following data:

SWL 2000 kg	Safety Factor	5:1
Your logos etc.	Test Certificate No	12238,3/21-12
	Test Certificate Date	2.12.2021
	Approved Laboratory	LABORDATA
	Test Standard	ISO 21898
	FIBC Class	Single trip
	Date FIBC manufactured	