

mobisteel

steel tank
with accessories



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1. Use

mobiSTEEL is a mobile fuel tank with a nominal volume of 910 l/1820 l/2820 l, which allows fuel to be delivered and discharged. The fuel tank fulfils the requirements of the European Agreement concerning the International Carriage of Dangerous Goods by Road, dated 01 January 2005 (ADR 2005).

2. Technical data and features

Tank capacity (l)	1000	2000	3000
Effective capacity (l)	910	1820	2820
Material of container	steel plate	steel plate	steel plate
Material of end caps	steel plate	steel plate	steel plate
Wall thickness (mm)	3	3	3
Color of container	grey, RAL 7042	grey, RAL 7042	grey, RAL 7042
Color of cover	grey, RAL 7042	grey, RAL 7042	grey, RAL 7042
UN-approval	un 31A/Z/...*/PL/SPAW-MAL/2364/1313	un 31A/Z/...*/PL/SPAW-MAL/4565/2536	31A/Z/...*/PL/SPAW-MAL/6588/3660
UN certificate	UN/16/1476/11	UN/16/1501/11	UN/16/1591/13
Dimensions L x W x H (mm)	1500 x 1180 x 1260	2580 x 1180 x 1260	2490 x 1630 x 1340
Weight (kg)	563	836	1160

Table 2-1: Technical data

Spezifikation:

- Tank truck-connector
- Level indicator
- Overfill sensor
- Ventilation valve
- Double wall steel tank
- 1 piece suction set G 1" for pump with vane, suction hose, non return valve and drainer
- 3 pieces suction sets G ¾" for plant with suction tube, non return valve and drainer
- 3 pieces gazole return sets G ½" from plant
- Movable under load
- Universal securing trap for shackle
- Lockable cap

Suitable for:

- Heating oil and diesel fuels

Special notes:

- Can be moved by a forklift
- 2 full tanks can be stacked on each other
- 3 outlets for delivery/return with closed cover
- European ADR Certificate for transportation of dangerous liquids on public roads
- Designation as per ADR regulations:

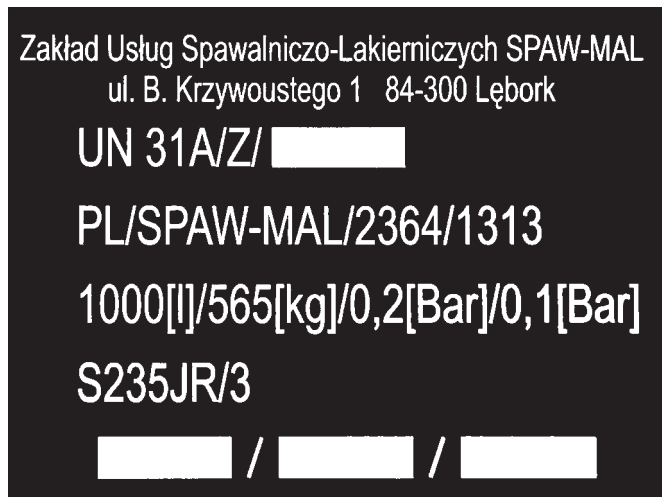


Fig. 2-1: Approval

Tank equipment and connections:



Fig. 2-2: Tank equipment and connections

No. Designation

- | | |
|---|---|
| 1 | Ventilation valve (45 140) |
| 2 | Tank truck-connector (45 143) |
| 3 | Vent ball valve for refueling |
| 4 | 1 piece suction set G 1" for pump with vane, suction hose, non return valve and drainer |
| 5 | Overfill sensor (83 723) |
| 6 | Level indicator (83 465) |
| 7 | 3 pieces suction sets G ¾" for plant with suction tube, non return valve and drainer |
| 8 | 3 pieces return sets G ½" from plant |

3. Operation

The mobile fuel tank was planned and constructed in such a way that it is as robust, safe, and low maintenance as possible.

After delivery, it should be confirmed that the tank's equipment is complete, and that there is no transport damage. After the pump set (if not already present) has been installed, and after filling with fuel, the tank is ready for operation.

Because of the type of liquid stored, and the possible environmental damage resulting from it, the following instructions are to be observed:

- The fuel tank is to be filled only via a sealed connection to the tank truck-connector. The tank must not be overfilled!
- To prevent contamination and damage to the pump system, no contaminated fuel may be stored in the tank!
- The pump's operating instructions are to be read before commissioning and use, and they are to be complied with.
- Filling and discharging may take place only under the supervision of an authorised employee.
- When filling with tank truck-connector open the vent ball valve, then close it again on completion of filling.
- The fuel tank must not be damaged during transport or storage. The tank's equipment is to be maintained in a usable condition at all times.

- The filter on the suction hose should also be cleaned if necessary when the supply rate is too slow.
- The system is to be protected from interference by unauthorised persons.
- Any modifications to the design, equipment, and purpose of the system are forbidden without the agreement of the manufacturer.
- If the fuel tank or a part of its equipment is damaged, then the system is to be taken out of operation until the defect is corrected. If a leak in the tank is observed, then the fuel is to be pumped into another container. The system's supplier is to be informed.

4. Equipment of transport vehicles

Every transport vehicle which is also required to fulfil requirements arising from other regulations must have the following equipment:

- Fastening belts for fixing and securing the fuel tank during transport.
- At least one portable 2 kg fire extinguisher with a seal, stamp of conformity as per the officially recognised standards, and date of expiration (month and year).
- At least one wheel chock per vehicle; its size must be appropriate to the vehicle weight and the wheel diameter.
- Two self-supporting warning indicators (e.g. reflective warning cones or triangles, or orange flashing warning lights with their own power supply).
- A suitable high visibility waistcoat or clothing (e.g. as per EN 471) for each employee on the transport vehicle.
- Hand lamp

5. Training of the driver

The driver of the transport vehicle must be trained in the handling of dangerous goods as per the applicable directives.

No additional training is necessary for drivers of vehicles transporting diesel, heating oil, or biodiesel.

6. Transport and storage

The fuel tank is to be carried on suitable vehicles which are appropriately marked as per ADR regulations.

The loading surface must be flat and without sharp edges.

The filled fuel tank may be loaded and unloaded onto/off the vehicle only by means of a forklift or a crane, and using correctly fixed load bearers. For lifting and moving the system, no other parts may be used which are not intended for the purpose.

Pushing or rolling the fuel tank is forbidden.

Transport may take place only when the system's power supply is switched off, its valves and nozzle are closed, its hoses and cables are rolled up, and when the fuel cap is closed.

In transport vehicles carrying dangerous goods, no passengers other than the vehicle's crew may be carried.

The vehicle's crew must be familiar with the fire extinguishing procedures.

It is forbidden to get onto the vehicle with illumination equipment which has an open flame. In addition, the illumination equipment used may have no metal surfaces which could cause sparks. When loading the tank with fuel, smoking is forbidden in vehicles and in their vicinity.

The engine must be stopped when charging or discharging the tank, unless it is required for operation of the pumps or other fuelling/discharging equipment, or if the regulations of the country in which the vehicle is situated permit this.

The vehicle's driver may leave a vehicle loaded with dangerous goods only after he has prevented its movement by means of the parking brake.

A transport vehicle carrying dangerous goods may have no more than one trailer.

7. Required transport documentation

In addition to documents required under other regulations, the following documents must be present in the transport vehicle:

- Delivery note
- written operating instructions for the fuel tank

Written operating instructions must be kept in the driver's cab and must be easily accessible. The shipping company must ensure that the driver understands the operating instructions and can follow them correctly. Transport vehicles which deliver dangerous goods are to be correspondingly marked and fitted with warning stickers as per ADR regulations.

8. General safety regulations

Personnel involved in the delivery of dangerous goods must take appropriate safety measures depending on the type and scope of potential dangers, in order to limit their consequences. In all cases, personnel must observe the applicable ADR regulations.

If there is direct danger to the public, personnel must inform the emergency services immediately and provide them with the necessary information. Duties for personnel are to be found in the ADR regulations.

9. Tests

The owner is responsible for:

- Requesting the relevant authority to carry out periodical tests on the fuel tank. The tests are required to the scope and at the time periods below:

	Test interval in years
Leak testing (test pressure 0.2 bar)	2 ½
External examination	2 ½
Internal examination	5
Type and designation	5

The dates of the most recent tests of leakage and condition are to be applied to the fuel tank permanently. The month and the year, e.g. „12/08“ are to be stamped in the appropriate row on the maker's plate. In addition, a test report is to be written. The owner must retain the reports for the entire working life of the fuel tank. The reports are to be provided with the tank if it is sold.

In the case of a negative test result, the tank/IBC container is to be repaired by an authorised manufacturer.

The following minimum information must exist for each fuel tank:

- Manufacturer's designation
- Name of the current owner
- Serial number of the IBC container
- Result of the first acceptance testing and of any leak testing (table 1)
- Reports on tests carried out every 2 ½ and 5 years (table 2)
- Damage and repair report (table 3)

10. mobiSTEEL as a stationary tank

mobiSTEEL can also be used as a stationary tank for storing and dispensing diesel. In this case, it is the owner's responsibility that national directives relating to installation and use of this product are complied with. Additionally, local fire and environmental protection measures are to be observed.

11. Guarantee

The manufacturer provides a guarantee on the tank for 5 years from the date of purchase.

If a problem should occur despite all quality measures taken, please get in touch with our service contact partners:

PRESSOL Schmiergeräte GmbH

Tel +49 9462 17-216

Fax +49 9462 1063

service@pressol.com

If it should be the case that the defect arose during the guarantee period because of incorrect handling or installation of the product, or that the defect arose outside the guarantee period, then the service costs will be charged to the owner.

Standard maintenance of systems, e.g. filter cleaning, battery replacement, calibration of the flow meter, is excluded from the guarantee.

The guarantee is annulled through:

- damage resulting from incorrect installation and handling of the system
- maintenance which was neglected, mechanical damage, or vandalism
- defects which arise from repairs or constructional modifications carried out by an unauthorised service provider
- change of the purpose of the product.

Pressol Schmiergeräte GmbH is not liable for damage arising from incorrect use nor contraventions to the operating instructions or regulations.

12. Exploded view

Item	Qty.	Designation	Prod. no.
1	1	Automatic nozzle valve	23 176 777
2	1	Adapter	85 369
3	7	O-ring 29 x 2,5	89 111
4	1	In-line meter,digital, NEF	23 295
5	2	Swivel joint	19 625
6	1	Discharge hose for diesel 6 m	23 155 958
7	2	Adapter 90°	85 370 777
8	4	Locking nut	00 044
9	1	Pump 12 V 60 l	23 008
10	1	console	82 912
11	1	Swage fitting	23 218
12	1	Threaded spout	85 395
13	0,14	Hose for diesel	80 372
14	2	Worm thread clamp	23 182
15	1	Adapter	85 374
16	1	Angle with lever ball valve	19 779
17	1	Lever ball valve G1	19 767
18	1	Overfill sensor	83 723
19	1	Level indicator	04 402
20	1	Foot valve with filter G 1"	19 890
21	2	Sealing ring	89 279
22	2	Threaded spout	89 278
23	3	LDPE-hose	80 327
24	1	Suction hose for diesel	84 733
25	1	Tank truck-connector	45 143
26	1	Ventilation and breathing valve	45 140
27	1	O-ring 44 x 3	93 233
28	1	Thread adapter	82 911
29	2	Locking nut M8	00 018
30	2	Hex head screw M8 x 16	02 243
31	1	Barrel adapter	82 984
32	1	Threaded nipple	85 358
33	1	Barrel adapter	23 216
34	3	Adapter Rücklauf	82 914
35	3	Copper gasket	83 722
36	3	Stopper	83 720
37	1	Steel tank 1000 l / 2000 l / 3000 l	45 200 / 45 202 / 45 204
38	3	Adapter	82 915
39	3	Copper gasket	83 721
40	3	Stopper	83 718
41	3	Suction tube	84 720
42	3	Foot valve with filter G ¾"	84 546

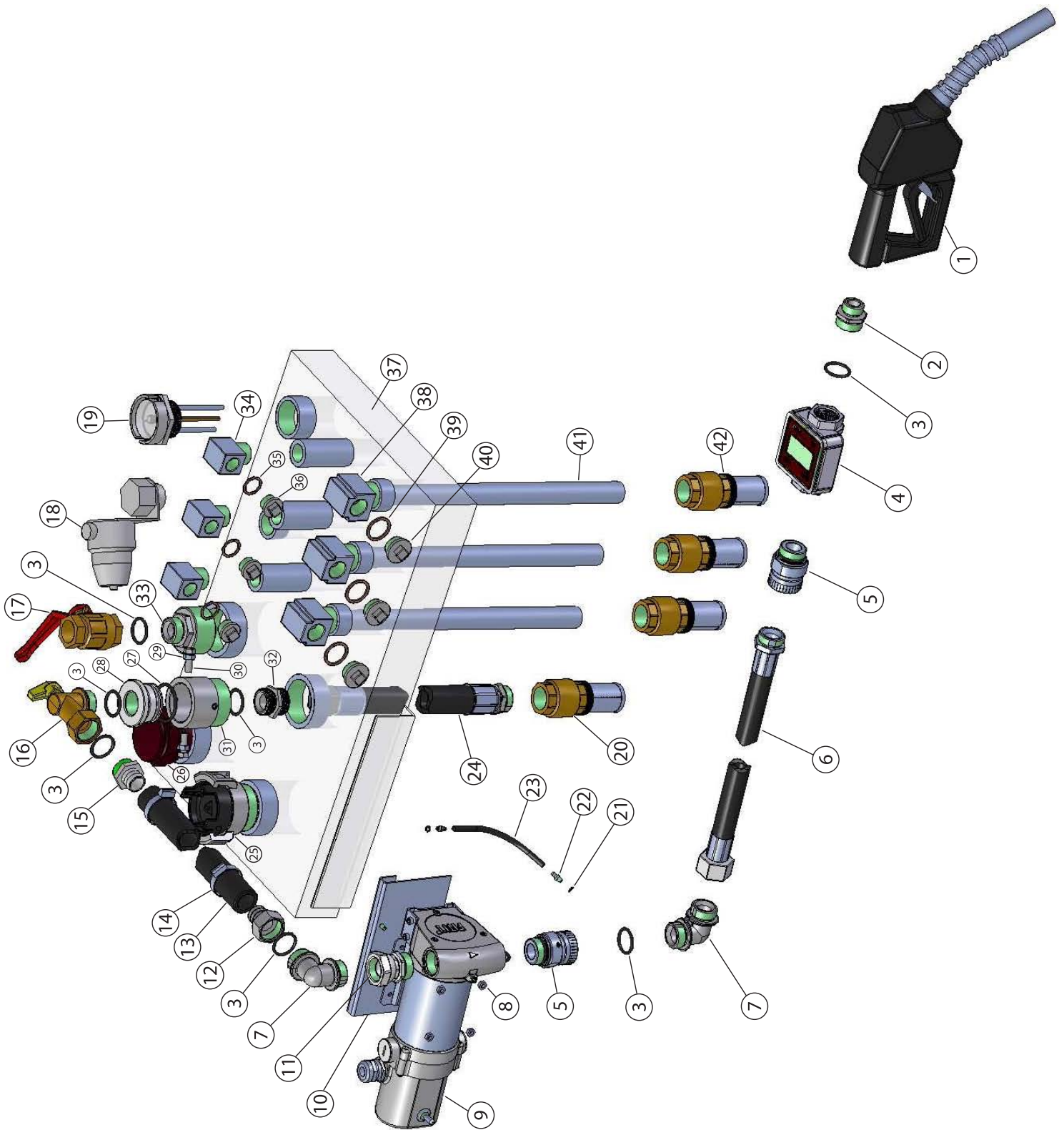
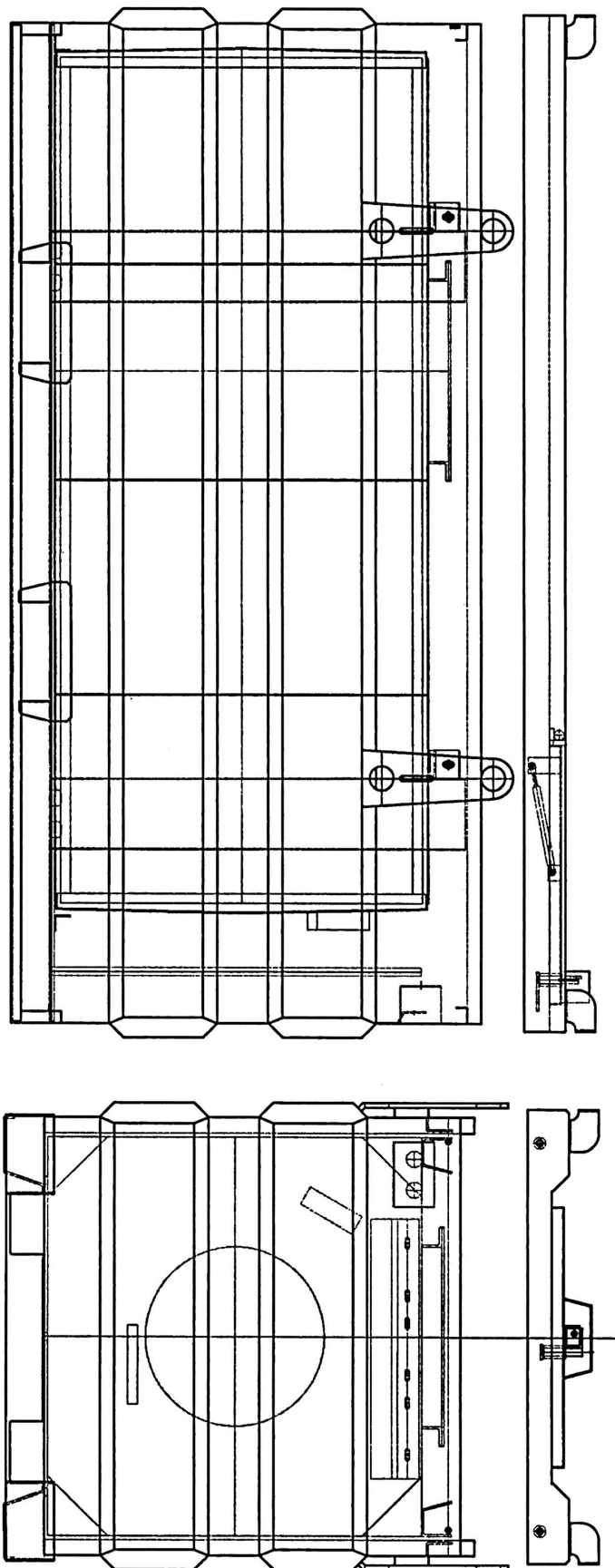


Fig. 12-1: Exploded view

13. General view of the tank



14. Control and operating reports

Table 1: Control report for IBC container (manufacturer)

	Manufacturer	Owner	Owner
Company / First name and surname			
Address post code, city/country			
Street and house number			
Contact person			
Phone number			

Serial number:

Table 2: Acceptance test and periodical testing every 2.5 or 5 years (owner)

Name of tester	Date, signature	Leakage test/ examination	External test/ examination	Internal test/ examination	Fittings	Type, designation

O = complies, X = does not comply

16. ADR certificates

CENTRALNY OŚRODEK BADAWCZO-ROZWOJOWY OPAKOWAŃ
Centrum Certyfikacji Opakowań



CERTIFICATE

No. UN/16/1476/11

for packaging for dangerous goods



AC 016

Pursuant to the Accreditation Certificate of the Product Certification Body No. AC 016 granted by the Polish Centre for Accreditation, authorisation issued by the Minister of Industry (letter of 15.02.1989, reference No. PT-4/AZ/1203/89, letter of 24.09.90, reference No. PT-4/AZ/4459/90 and letter of 16.07.1992, reference No. PTF-3/AZ/3348/92), Ordinance No. 4 of the Minister of Economy, Labour and Social Policy of 6.06.2003 and Ordinance No. 40 of the Minister of Economy and Labour of 24.11.2004, the Polish Packaging Research and Development Centre

confers the right to mark a packaging as follows

 31A/Z/...*/PL/SPAW-MAL/2364/1313

Additional marking according to point 6.5.2.2 of ADR

Name of packaging:
intermediate bulk container (IBC) 31A, type ZON 1000, from steel sheet S235 JR, thickness - 3 mm, for transport of liquid dangerous goods (UN 1202), netto mass to 750 kg

PKWiU symbol:
28.21.11

Identification document:
Technical Documentation of the Manufacturer

- Certificate holder: **Zakład Usług Spawalniczo-Lakierniczych SPAW- MAL s.c., ul. B. Krzywoustego 1, 84-300 Łębork**
- Packaging manufacturer: **Zakład Usług Spawalniczo-Lakierniczych SPAW- MAL s.c., ul. B. Krzywoustego 1, 84-300 Łębork**
- The packaging complies with the requirements provided in: **ADR (valid as on the certificate issue day)**
- Certification system: **5 according to PKN-ISO/IEC Guide 67:2007**
- Tests performed in: **Transport Packaging Testing Laboratory of COBRO**
- Test report No: **102/DOT/2011 + COBRO 01/11a**
- Rights and obligations of the Certificate Holder have been laid in the Agreement No **DC/6-UN/11** of **2011.07.20**
- Certificate validity period: from **2011.07.20** to **2014.07.31**

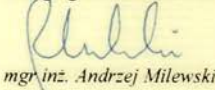
* - year of production /two last digits/

method of packaging and transport possibilities of specific goods in the packaging covered by this Certificate should be checked each time against above-mentioned regulations (according to the UN identification number)

The certificate covers only items with identical properties (parameters) as the model(s) submitted for tests and compliant with the requirements laid down herein above.

The text in Polish language is binding. Should there exist any difference between the Polish and the English version, the Polish one will be valid.

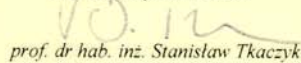
MANAGER
of Packaging Certification Centre


mgr inż. Andrzej Milewski

Warszawa, 2011.07.21



DIRECTOR
of Polish Packaging Research
and Development Centre


prof. dr hab. inż. Stanisław Tkaczyk

02-942 Warszawa, ul. Konstancińska 11

CENTRALNY OŚRODEK BADAWCZO-ROZWOJOWY OPAKOWAŃ
Centrum Certyfikacji Opakowań



CERTIFICATE

No. UN/16/1501/11

for packaging for dangerous goods



AC 016

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confers the right to mark a packaging as follows

31A/Z/...*/PL/SPAW-MAL/4565/2536

Additional marking according to point 6.5.2.2 of ADR

Name of packaging: intermediate bulk container (IBC) 31A, type ZON 2000, from steel sheet S235 JR, thickness - 3 mm, for transport of liquid dangerous goods (UN 1202), netto mass to 1700 kg	
PKWiU symbol: 28.21.11	Identification document: Technical Documentation of the Manufacturer

- Certificate holder: **Zakład Usług Spawalnicto-Lakierniczych SPAW- MAL s.c., ul. B. Krzywoustego 1, 84-300 Lębork**
- Packaging manufacturer: **Zakład Usług Spawalnicto-Lakierniczych SPAW- MAL s.c., ul. B. Krzywoustego 1, 84-300 Lębork**
- The packaging complies with the requirements provided in: **ADR (valid as on the certificate issue day)**
- Certification system: **5 according to PKN-ISO/IEC Guide 67:2007**
- Tests performed in: **Transport Packaging Testing Laboratory of COBRO**
- Test report No: **171/DOT/2011 + COBRO 02/11a**
- Rights and obligations of the Certificate Holder have been laid in the Agreement No **DC/6-UN/11** of **2011.07.20**
- Certificate validity period: from **2011.12.07** to **2014.12.31**

* - year of production /two last digits/

method of packaging and transport possibilities of specific goods in the packaging covered by this Certificate should be checked each time against above-mentioned regulations (according to the UN identification number)

The certificate covers only items with identical properties (parameters) as the model(s) submitted for tests and compliant with the requirements laid down herein above.
The text in Polish language is binding. Should there exist any difference between the Polish and the English version, the Polish one will be valid.

MANAGER
of Packaging Certification Centre

mgr inż. Andrzej Milewski

Warszawa, 2011.12.07



DIRECTOR
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COBRO - PACKAGING RESEARCH INSTITUTE
Packaging Certification Centre



CERTIFICATE


No. UN/16/1591/13

for packaging for dangerous goods



Pursuant to the Accreditation Certificate of the Product Certification Body No. AC 016 granted by the Polish Centre for Accreditation, authorisation issued by the Minister of Industry (letter of 15.02.1989, reference No. PT-4/AZ/1203/89, letter of 24.09.90, reference No PT-4/AZ/4459/90 and letter of 16.07.1992, reference No PTF-3/AZ/3348/92), Ordinance of the Minister of Economy of 15.03.2012, COBRO - Packaging Research Institute

authorize to mark a packaging as follows

 31A/Z/....*/PL/SPAW-MAL/6588/3660

Additional marking according to point 6.5.2.2 of ADR

Name of packaging: intermediate bulk container (IBC) 31A, type ZON 3000, from steel sheet S235 JR, thickness - 3 mm, for transport of liquid dangerous goods (UN 1202), netto mass to 2500 kg	
PKWiU symbol: 28.21.11	Identification document: Technical Documentation of the Manufacturer

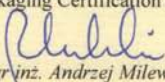
- Certificate holder: **Zakład Usług Spawalniczo-Lakierniczych SPAW- MAL s.c., ul. B. Krzywoustego 1, 84-300 Łębork**
- Packaging manufacturer: **Zakład Usług Spawalniczo-Lakierniczych SPAW- MAL s.c., ul. B. Krzywoustego 1, 84-300 Łębork**
- The packaging complies with the requirements provided in: **ADR (valid as on the certificate issue day)**
- Certification system: **5 according to PKN-ISO/IEC Guide 67:2007**
- Tests performed in: **Transport Packaging Testing Laboratory of COBRO and Packaging Laboratory Széchenyi István University w Gyor**
- Test report No: **118/DOT/2013 and COBRO 02/13a**
- Rights and obligations of the Certificate Holder have been laid in the Agreement No **DC/6-UN/11** of **2011.07.20**
- Certificate validity period: from **2013.06.25** to **2016.06.30**

* - year of production /two last digits/

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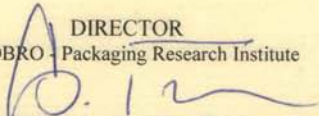
MANAGER
of Packaging Certification Centre


mgr inż. Andrzej Milewski

Warszawa, 2013.06.25



DIRECTOR
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