

Packaging - Specification

ECOBULK / FOODCERT

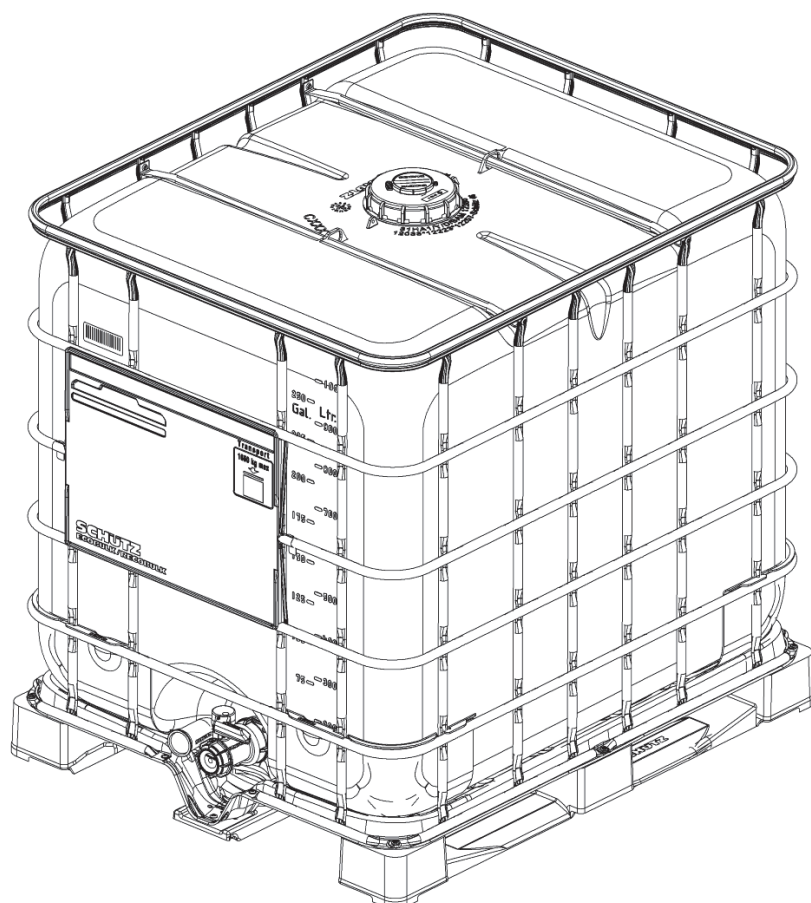
SCHÜTZ

Transportcontainer ECOBULK 1000 ltr.
MX1000 UN Ex FSSC Nat/150G TF G2plug+ET15HF
int.Bfly 50 00 Met 3PCA/Plastic skid
2-Plt LG:LG

Schütz GmbH & Co. KGaA
Schützstrasse 12
D-56242 SELTERS / WESTERWALD

Article-No. 4029730

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SICHERHEITSHINWEISE	SAFETY INSTRUCTIONS
IBC für den Einsatz in explosionsgefährdeten Bereichen der Zonen 1 und 2, geschützt nach Regelwerk: IEC TS 60079-32-1:2013 und TRGS 727:2016 Der IBC darf verwendet werden für: - nicht brennbare Flüssigkeiten oder - brennbare Flüssigkeiten der Explosionsgruppe IA (gem. IEC 60079-20-1) oder - brennbare Flüssigkeiten der Explosionsgruppe IIB, welche eine Mindestzündenergie von 0,2 mJ oder mehr haben. Der IBC darf nicht in explosionsgefährdeten Bereichen verwendet werden durch Stoffe der Explosionsgruppe IC oder verursacht durch Stoffe mit einer Mindestzündenergie von weniger als 0,2 mJ eingesetzt werden. Während des Befüllens und Entleerens muss der IBC geerdet sein. Der IBC darf ohne Schutzmaßnahmen nicht als Rühr-, Misch-, Reaktions-, Absetz- oder Sammelbehälter verwendet werden. Der IBC sollte nicht direkt nach dem Reinigen wiederbefüllt werden.	IBCs for use in hazardous areas classified as zones 1 and 2, protected against electrostatic ignition hazards according to following regulations: IEC TS 60079-32-1:2013 and TRGS 727:2016 The IBC may be used for: - non-flammable liquids or - flammable liquids of explosion group IA (acc. to IEC 60079-20-1) or - flammable liquids of explosion group IIB with a minimum ignition energy of 0,2 mJ or more. The IBC shall not be used in explosion endangered areas resulting from substances of explosion group IC or from substances with a minimum ignition energy of less than 0,2 mJ. During filling and emptying operations the IBC has to be earthed. The IBC shall not be used as collecting tank, reactor, batching tank or for stirring and mixing operations without preventive measures. The IBC should not be filled immediately after cleaning.

These pictures are for illustration purposes only and do not necessarily correspond to the specified products.

Weights and measures

Nominal Capacity	1.000 l	275 gal US
Brimful Capacity	1.060 l	280,027 gal US
Length	1.200 mm	47,240 in
Width	1.000 mm	39,370 in
Height with pallet	1.160 mm	45,670 in
Weight total approx	58,5 kg	129,0 lbs US

Pallet

Pallet type	Plastic-skidpallet for EX
Opening height	min. 90mm, 4-way entry

Outer container

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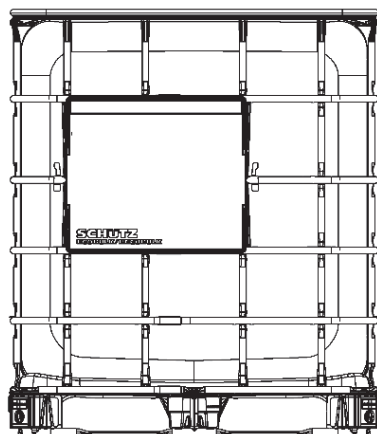
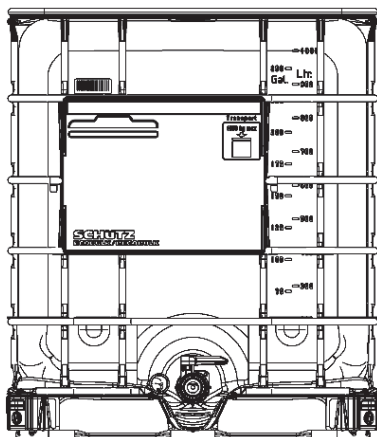
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Grid	Steel, galvanized
Bottom plate	Steel, galvanized
Label plate	large - 6 field, with Schütz-Ticket
additional label plate	back side - standard



Inner container

Rectangular blow molded tank of high density polyethylene
Container PE-HD, natural

Filling opening

Screw cap	DN150 / 6", PE-HD, green
O-ring gasket	TPE
Sealing-cap	red



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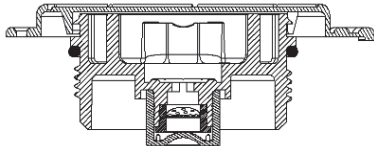
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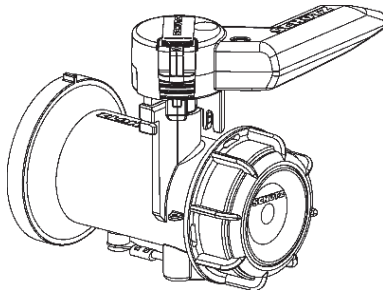
Plug

G2"plug with Presspart 15-HF



Discharge opening

Outlet valve	integr.butterfly-valve DN50/2"
Case	PE-HD
Connection thread	metric
Flap gasket / Ball gasket	PP
Handle color	green, Handle protection
Screw cap	PE-HD
Screw cap gasket	PE, foamed
Screw cap color	green
Outlet nozzle	PE-HD, packed
Grounding sheet	Stainless steel (V4A)



Features

Certification for EX zones

Certified for EX zones 1 and 2 according IEC TS 60079-32-1 and TRGS 727.

UN-Marking

UN_31HA1/Y/MM YY/D/BAM14977-SCHÜTZ#/4056/1723/1060L/57KG/100KPA

Directive

Food safety according to FSSC 22000 + declaration of conformity

Production

According to the FOODCERT process description (PDF Annexe 1)

Heavy metals

Concentration level of heavy metals (Pb, Cd, Cr VI and Hg) in packaging does not exceed 100 ppm

Delivery

Ready for filling. The customer or filler is responsible for testing the material compatibility of the filling material with the packaging

This specification is manufactured and delivered in accordance with the current status of the SCHÜTZ "Quality

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Management Standard for Supplies of Packaging Materials", which you can view at the following link:
www.schuetz.net/qmstandard

The maximum filling temperature depends on the respective filling product (specific heat capacity), but must not exceed 70° C (158° F) for HDPE packaging and 60° C (140° F) for LDPE packaging with an integrated inliner. Deformation such as sink and marks or wrinkling around edges and corners can be caused by temperature and pressure differences during filling, transport, storage or depending on the vapour pressure of the filling product. To exclude these kinds of deformations, we recommend the use of an aeration and deaeration system suitable for the specific application.

The SCHÜTZ Technical Customer Service will be happy to recommend a suitable system for your application.

IBCs are designed and constructed for the transport, storage and handling of filling products in accordance with the relevant dangerous goods regulations.

During the use of the containers, especially in the case of multiple refilling cycles, the attachment parts such as outlet valves and screw caps as well as the associated gaskets are subject to varying degrees of wear, depending on the filling product, the type of application and the duration of use. The risk of wear increases with the frequency of use. In particular, washing procedures or improper handling during reconditioning can damage the IBC or its attachment parts. After the initial opening of the outlet valve, the container should be emptied as soon as possible and with as few intervals as possible and should be securely closed after each emptying operation.

Where IBCs are used in multiple refill cycles, it is the responsibility of the distributor and/or filler to carry out the necessary quality checks in accordance with applicable regulations and to ensure that the packaging is in a proper condition. Damaged components must be professionally repaired or replaced with original Schütz components or other approved components.

According to FSSC 22000, SCHÜTZ wishes to point out that the products and the product labelling as packaging for food contact are in compliance with the applicable statutory provisions of Regulations (EG) No. 1935/2004, (EG) No. 10/2011, the Code of Federal Regulation Title 21 § 177.1520, 177.2600 and 178.3910 of the Food and Drug Administration. It is the responsibility of the CUSTOMER to ensure compliance to any additional or deviating local legal requirements and / or labelling obligations.

As the outlet valve contains a stainless steel screw, the IBC must not be used for filling products which are corrosive to V4A stainless steel.

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Material of components that come into contact with the filling good:

- HDPE, food-safe
- Food-safe seals and dyes
- Free of silicones

Product:

- FOODCERT label (FSSC+FDA) + design
- Certificate of conformity
 - Migration tests/certificates
- Halal & kosher certification

Process:

Food Safety System Certification (FSSC) is an internationally recognised standard of the Global Food Safety Initiative (GFSI) that applies throughout the entire supply chain. In the packaging industry, FSSC combines the ISO 22000:2018 and ISO/TS 22002-4 standards as well as various additional requirements, thereby establishing a new standard of food safety which applies to the entire packaging production process.

Overarching measures

- Annual audit in compliance with FSSC 22000 conducted by Lloyd's Register (LR)
- Annual internal audit programme for ensuring conformity with FSSC
- Annual management review in which the management sets new FSSC measures and targets
- Annual verification programme to ensure that food safety is maintained by qualified personnel, including the obligation to provide evidence of conformity in accordance with the European and international legislation
- Appointment of an expert as a food safety consultant
- Appointment of a food safety team with the following duties:
 - Regular, risk-based verification of production processes and products
 - Verification of oPRPs, PRPs and other food-relevant measures (see below)
 - Regular inspections to verify conformity with the current legal requirements
 - Interdisciplinary analysis and documentation of verification results

Measures in conformity with DIN EN ISO 22000:2018 – management systems for food safety requirements to be met by every organisation in the food chain

- Risk management based on Hazard Analysis and Critical Control Points (HACCP) – principles of risk analysis and ensuring good manufacturing practice with a focus on guaranteeing the food safety and consumer protection
- Change control and continuous improvement process: interactive communication and cooperation between the customer, the competent authorities and SCHÜTZ for customised risk evaluation and needs assessment:
 - Identification, steering and documentation of health issues and clarification of end product requirements in order to eliminate health risks to the end consumer
 - Duty to warn of any potential health risk (if known)
- Traceability system and withdrawal management:
 - Batch traceability of materials that have been in contact with products, back to the raw material supplier, including internal and external process data (e.g. order number, production data, details of delivery to customer)
 - Internal and external process data make the specific withdrawal of individual production batches possible
 - Traceability exercise – regular, realistic traceability test
 - Mock recall – regular, realistic withdrawal test
- Just-in-time production based on individual orders from customers

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- Immediate sealing of the IBC with an original cap
- Transfer of the inner bottle straight to final assembly
- Components (screw caps, valves) specially packed and stored in small quantities prior to assembly
- Visual final inspection
- Storage of finished products under roof

Operational prevention programmes (oPRPs) arising from the internal risk analysis of potential sources of contamination or the spread of health risks

- oPRP for incoming plastic materials (check on seal and raw material parameter compliance, inspection of the truck/the truck's cleanliness certificate and the driver's PPE)
- oPRP for water bath (regular maintenance of air filters and water change/cleaning of water bath)
- oPRP for blow air (regular maintenance of microfilters, PU seals and compressor)

Prerequisite programmes (PRPs) and other measures for the production of food packaging in conformity with ISO/TS 22002-4

- Regular microbiological tests respectively hygiene monitoring of surfaces in those processes of particular relevance to food (gloves, components that come into contact with products, surfaces of the inner bottle, water bath)
- Food defence - product safety and bioterrorism
 - Regular training and screening with regard to sabotage, vandalism and terrorism
 - Measures: access controls, staff screening, document/data management, safety in warehouses and production units, distribution and transport, reliable inspection of incoming goods, AEO + C-TPAT
- Detailed hygiene regulations for employees (clean gloves and clothing, hairnets, personal hygiene only with approved toiletries, no jewellery, no work permit when sick, work and leisure clothes kept apart in separate locker compartments)
- Detailed hygiene regulations for the production environment (cleaning instructions and rotas)
- Foreign bodies/dust (enclosed production shops, covered areas)
- Glass breakage management (inspections ensure that all glass and hard plastic parts, eg protective coverings, are intact)
- Blade management (inspections ensure that all blades are present and intact)
- Coordinated and reduced maintenance and repair intervals (systems approved for operation following maintenance)
- Comprehensive pest control (monitoring system, fly traps, waste management)
- Chemicals (controlled use of all chemical substances)

+

- No water bath inspection*
- No differential pressure test*
- Drawing oil removed from steel parts*
- Additional sealing of screw cap and/or valve*
- Other accessories individually packed and separately stored*
- Protective cover for transport*
- Customer-specific labelling of packaging*
- Customer-specific delivery instructions*
- Storage of finished products in sealed rooms*

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- Direct loading*

*optional

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Silicones / PWIS in IBCs and PE drums from the FOODCERT & CLEANCERT product lines

Schütz GmbH & Co. KGaA hereby certifies that parts that are in contact with the filling product are free of silicones and fluorinated compounds that are capable of migration, and surfactants. This applies in the same manner for liquid, pasty, and solid materials that may release silicones, fluorinated compounds, or surfactants. These include, for example, oils, fats, protective agents, lubricants, textile auxiliaries, plastics-processing auxiliaries, hairsprays, hammer-finish paint, anti-corrosive agents, sealants, permanently lubricated sintered components, each containing silicone. It is particularly important to avoid materials based on fluorinated oils, fats or waxes, and low-molecular constituents of fluorinated polymers that are capable of migration.

In order to minimize the risk of ubiquitous traces of the substances mentioned above during the production process of FOODCERT and CLEANCERT products, up to the point when the products are loaded for dispatch special SCHÜTZ preventive programmes apply to the product lines FOODCERT and CLEANCERT to avoid the active introduction of PWIS (paint wetting impairment substances) into the production sites. These include the following measures:

- Supplier guidelines including an exclusion note for silicones and PWIS in the supplied products and services
- Contractor guideline for the exclusion of silicones and PWIS when working at a SCHÜTZ site
- Supplier questionnaire for the exclusion of silicones and PWIS in supplier processes for the production of SCHÜTZ components
- If appropriate, supplier audits to verify that no silicones and PWIS are used in relevant supplier processes
- HACCP risk management programme at SCHÜTZ including silicones and PWIS
- "Personal hygiene" preventive programme
- BASF sample shake test on the majority of products and working materials (e.g. gloves) to confirm the absence of silicones
- Sample paint tests according to VDMA 24364 on critical products and working materials to confirm the absence of PWIS

Please note that as the name implies, all of the above mentioned actions are "risk minimization activities". As such, these activities reduce the risk of silicones and PWIS contamination to a minimum, but do not guarantee a 100% exclusion. A detailed description of all additional preventive measures for our product lines FOODCERT and CLEANCERT can be found in the respective specifications.

Schütz GmbH & Co. KGaA
56242 Selters
Germany

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