



TNO-report

VERP 08.13038/PS

Packaging of dangerous goods

IBC approval no. 413

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Description of the IBC

Rigid plastics IBC for liquids

Packaging code	: 31H2
Type description	: Truckmaster
Nominal capacity	: 430 liter
Dimensions	: 1157 x 842 x 912 mm
Nominal mass (empty)	: 45 kg (excluding accessories as listed under options)
Material	: mMDPE
Type	: mPE M 3421 UV
Supplier	: Total Petrochemicals
Method of manufacturing	: Rotational moulding
Filling opening	: Offset fill opening 2" BSP male thread with metal closure or plastics PP or PE closure supplied with diesel resistant rubber pad (seal)
Options	: 1) Up to 3 moulded-in inserts with either 2" BSP or 1½" BSP female thread <ul style="list-style-type: none">- Insert 1: with plastics vent; the metal fitting for the vent is supplied with a holder for the nozzle- Insert 2: metal fitting with gauge (liquid level indication)- Insert 3: metal fitting with suction take off line: a ball valve connected to a pump (with optionally a flowmeter) and a hose with a nozzle
	: 2) A fourth insert with either 2" BSP or 1½" BSP female thread

Reference regulations

Sea transport	: IMDG Code, 2006
Road transport	: ADR, 2007
Railway transport	: RID, 2007

Reference reports

TNO-report(s)	: VERP 05.09998/CS, dated January 23, 2006 VERP 06.11061/CS-R1, dated October 12, 2006
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Contents to be transported

Packing group	: II and III
Liquids	
To be assimilated to standard liquid	: white spirit
Maximum relative density	: 1.2
Hydraulic test pressure	: 40 kPa
Maximum gross mass	: 575 kg
Stacking height	: not stackable/ not intended to be stacked

UN-mark

TNO Certification BV as competent authority has issued the following mark:



31H2/Y/--/NL/Truckmaster 413/0/ 575**

Capacity at 20°C	: 430 litres
Tare mass	: 45 kg
Test pressure	: 40 kPa
Date of the last leakproofness test	: month and year
Date of the last inspection	: month and year
Serial number of the manufacturer	:

**-- the month and the last two digits of the year in which the packaging was produced should be entered here.

This mark can be used by the holder of the UN-mark, TITAN-EKO in Rokietnica, Poland, to indicate that the packagings produced meet the requirements.

Quality assurance

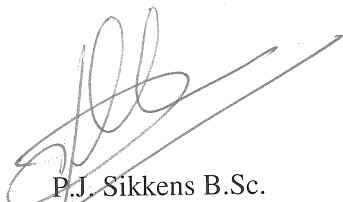
Manufacturing of packagings bearing this mark must be according to a quality assurance system as laid down by TNO Certification B.V. in the Guideline as applicable.

Use of packagings

The use of packagings of the approved type for the transport of dangerous goods has been laid down in the regulations applicable in the mode of transport.

Validity

This approval replaces all approvals issued earlier.
The use of packagings, manufactured in a period in which a previous approval was valid, is allowed.



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Project manager



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