



Technická inšpekcia, a.s.

Trnavská cesta 56, 821 01 Bratislava
Slovenská republika

CERTIFICATE

no.: 491/5/2021

issued according to the Directive 2010/35/EU and Directive 2008/68/EC.

Annex to Directive 2008/68/EC: ADR/RID 2021

Used standard(s): EN 12245: 2009 + A1: 2011

Type of inspection: type approval

Name of equipment: Composite LPG cylinder
(details are described in the Annex to the Certificate)

Type designation: FSYP + G - xx, where "xx" is water content

Drawing: FSYP + G - (xx) - 02 Version 0.0 (cylinder)
FSYP + G - (xx) - 01 Version 0.0 (overwrap)
FSYP + G - (xx) - 00 Version 0.0 (liner)
where "xx" is water content

Manufacturer: Anhui Clean Energy Co. Ltd.
No. 318 Guan-Yin Rd, Taihu Economic Development
Zone, Anqing, Anhui Province 246400, P.R. CHINA

Inspection report: 491/5/2021

**Technická inšpekcia, a. s., Trnavská 56, 821 01 Bratislava, Slovak Republic, notified body
1354*) after performance and evaluation of inspection of equipment**

certifies, that

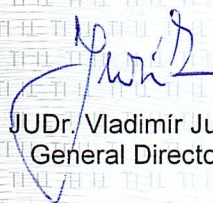
**type of equipment fulfils requirements of Directive 2010/35/EU and Annex to the Directive
2008/68/EC - ADR/RID 2021 verified by inspection.**

**Manufacturer will inform Technická inšpekcia, a. s. about every modification of the
equipment that can affect its conformity.**

Bratislava, 6th October 2021

Certificate validity: 5th October 2031




JUDr. Vladimír Jurík
General Director

479521

OSV ADR5-092

Annex to the Certificate no. 491/5/2021
Description of the family of cylinders which has received type approval

Design life: up to 20 years
Underwater use: no
Special torque: 60 Nm
Pressure relief device: yes (as part of valve)

standard for valve	pressure relief valve set pressure	pressure relief valve discharge capacity
EN ISO 14245: 2010	26 bar	5 m ³ /min

Compatible gases: UN 1011, UN 1075, UN1965, UN 1969, UN1978
Manufacturing factory address: same as manufacturer

Finished cylinder

Capacity: 12.5 L to 35.7 L
Test pressure: 30 bar
Diameter: 297 ± 4.0 mm
Length: 275 ± 6.0 mm to 660 ± 6.0 mm
Thread: M26 x 1.5

Liner

Material: HDPE - Lupolen 4261 AG BD
Minimum thickness: 1.0 mm
Density: 0.944 g/cm³
Melting point: 131 °C
Glass transition temperature: bellow -150 °C
Auto-ignition temperature: ≥ 330 °C

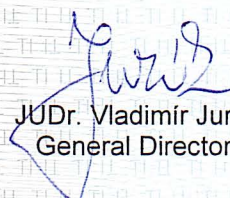
Boss

Material: HPb59-1 temper Y2 (GB/T 4423-2007)
Minimum thickness: ≥ 1.0mm
Minimum yield strength: ≥ 210 MPa
Minimum tensile strength: ≥ 400 MPa
Elongation: ≥ 15 %

Composite material

Fibre: glass fibre – E6DR17-1200-308H
Fibre tensile strength: ≥ 900 MPa
Fibre modulus: ≥ 72 GPa
Matrix components: Epoxy resin DF 8101 + agent DF8152
Shear strength: ≥ 13.8 MPa
Thickness: min. 3.2 mm




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General Director