

X-STORE® GAS CONTAINER MODULES, VERSION ADR V2

FULL CARBON DESIGN, 250 BAR, CNG



HEXAGON

| | | X-STORE 10 ft | X-STORE 20 ft | X-STORE 30 ft | X-STORE 40 ft | X-STORE 45 ft |
|---|------------------------|---|-----------------------|-----------------------|------------------------|------------------------|
| Approval | Cylinders | According to ISO 11119-3 / EN 12245* | | | | |
| | System | ADR approved and leak tested according to DIN EN 1779 | | | | |
| | Container | According to ISO 668 including CSC approval | | | | According to CSC |
| | Corner castings | According to ISO 668 | | | | |
| Hydraulic capacity, approx. | l | 8,750 | 19,250 | 29,750 | 40,250 | 45,500 |
| Nominal transport capacity CNG (15 °C) ¹⁾ | m³ | 2,570 | 5,655 | 8,735 | 11,820 | 13,360 |
| Container (length x width x height) | mm | 3,048 x 2,438 x 2,743 | 6,058 x 2,438 x 2,743 | 9,087 x 2,438 x 2,743 | 12,192 x 2,438 x 2,743 | 13,176 x 2,438 x 2,743 |
| Net weight container, approx. ²⁾ | kg | 4,360 | 8,825 | 13,195 | 17,410 | 19,575 |
| Gas weight CNG (D=0.75 kg/m³) ¹⁾ | kg | 1,930 | 4,240 | 6,550 | 8,865 | 10,020 |
| Total container weight + CNG ^{1) 2)} | kg | 6,290 | 13,065 | 19,745 | 26,275 | 29,595 |
| Quantity cylinders, 350 l | pcs | 25 | 55 | 85 | 115 | 130 |
| Minimum residual pressure (15 °C) | MPa (bar) | 1 (10) | | | | |
| Operating pressure (15 °C) | MPa (bar) | 25 (250) | | | | |
| Burst pressure, min. | MPa (bar) | 75 (750) | | | | |
| Cylinder operating temperature min./max. | °C | -40 / +65 | | | | |
| Cylinder type | | Type 4 | | | | |
| Cylinder marking | | TC_500_1 | | | | |
| Cylinder design | | Full carbon | | | | |
| Cylinder liner material | | High density polyethylene (HDPE) | | | | |
| Service lifetime | | Unlimited | | | | |
| Inspection standard | | ISO 11623 | | | | |

1) The filling process underlies the complex physical laws of fluid mechanics. The actual filling volume depends on several factors: chemical composition of gas, ambient temperature, filling speed and inlet temperature which in turn, depend on the equipment of the compressor station (compressors, chillers, piping, valves and fittings). Therefore an exact statement about the real filling volume cannot be given. Typically filling efficiencies of 75-95% are reached.

2) +1 % tolerance due to manufacturing reasons



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