

X-STORE® GAS CONTAINER MODULES, VERSION ADR V2

FULL CARBON DESIGN, 500 BAR, H₂



HEXAGON

		X-STORE 10 ft	X-STORE 20 ft	X-STORE 30 ft	X-STORE 40 ft*
Approval	Cylinders	According to EN 12245			
	System	ADR approved and leak tested according to DIN EN 1779			
	Container	According to ISO 668 including CSC approval			
	Corner castings	According to ISO 668			
Hydraulic capacity, approx.	l	7,634	18,044	28,454	35,741
Nominal transport capacity H ₂ (15 °C) ¹⁾	m ³	2,840	6,715	10,585	13,295
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
Net weight container, approx. ²⁾	kg	7,085	15,660	24,140	30,370
Gas weight H ₂ (D=0.084 kg/m ³) ¹⁾	kg	240	565	890	1,115
Total container weight + H ₂ ¹⁾²⁾	kg	7,325	16,225	25,030	31,485
Quantity cylinders, 347 l	pcs	22	52	82	103
Minimum residual pressure (15 °C)	MPa (bar)	1 (10)			
Operating pressure (15 °C)	MPa (bar)	50 (500)			
Burst pressure, min.	MPa (bar)	150 (1500)			
Cylinder operating temperature min./max.	°C	-40 / +65			
Cylinder type		Type 4			
Cylinder marking		TH_530_1			
Cylinder design		Full carbon			
Cylinder liner material		High density polyethylene (HDPE)			
Service lifetime		Unlimited			
Inspection standard		EN 12245			

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

* Due to the weight limit of maximum 40 tons for trucks in Europe the 40 ft is executed as a battery vehicle instead of a container.

Metric unit system



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