Westfalen AG · Industrieweg 43
D-48155 Münster · Tel. 02 51/6 95-0
Fax 02 51/6 95-194 · www.westfalen-ag.de

Xenon 4.0

Product Designation	Xenon 4.0
Physical state	gaseous, compressed
Chemical symbol	Xe
Purity	99,99 vol.%

Impurities	**Maximum value**
Oxygen	2 vol. ppm
Nitrogen	10 vol. ppm
Moisture	5 vol. ppm
Krypton	60 vol. ppm

Delivery formats

In steel cylinders

Descriptions	**cylinders/container volumes**	**Net weight**	**Content**
Xenon 4.0 T02 RCyl: 0,2 m3	2 l	1,1 kg	0,20 m^3
Xenon 4.0 T10 RCyl: 1,5 m3	10 l	8,28 kg	1,50 m^3

Unless otherwise stated, these refer to content at 288,15K (15°C) and 1,013 bar.

Other delivery formats

on request
Alumini® 12, 200 Xenon 4.0
in steel cylinders: Xenon 4.0 and 4.7

Properties	asphyxiant
Valve connection	DIN 477 No. 6 | (W 21.80 x 1/14)
Shoulder colour	yellow green (RAL 6018)
Suitable pressure regulators	WEGA range: see brochure: "Good on Top: Pressure Regulators for Specialty Gases".

Typical applications

as a filling gas for insulated glass windows
as a filling gas in xenon high-pressure lamps (automotive industry)
as synthesis agents for particularly reactive fluorine and oxygen compounds
for measurement of gamma and X-ray radiation
as a laser resonator gas

Westfalen AG · Industrieweg 43
D-48155 Münster · Tel. 02 51/6 95-0
Fax 02 51/6 95-194 · www.westfalen-ag.de

Xenon 4.0

Conversions

1 m^3	at 288.15 K (15°C); 1 bar	=	5,517 kg
1 m^3		=	1,818 l $_{liquid}$
1 kg		=	0,181 m^3
1 kg		=	0,330 l $_{liquid}$
1 l $_{liquid}$	at T $_{boiling\ point}$; 1 bar	=	0,550 m^3
1 l $_{liquid}$		=	3,035 kg

Physical data:

Molar Mass	Molar mass	131,30 g mol^{-1}
Liquid State	Boiling Point	165,05 (-108,1) K (°C)
	Heat of Evaporation	96,30 kJ kg^{-1}
	Liquid Density	2945,0 kg m^{-3}
Gaseous state	Density (at 273.15 K and 1.013 bar)	5,89 kg m^{-3}
	Density Ratio to Air (at 288.15 K and 1.013 bar)	4,55
	Specific heat (at 298.15 K and 1.013 bar)	0,16 kJ kg^{-1} K^{-1}
	Thermal Conductivity (at 288.15 K and 1.013 bar)	0,0056 J s^{-1} m^{-1} K^{-1}
Critical Point	Temperature	290 (16,9) K (°C)
	Pressure	58,40 bar
	Density	1110,0 kg m^{-3}
Triple Point	Temperature	161,4 (-111,8) K (°C)
	Vapour Pressure	0,8160 bar
	Heat of Fusion	17,5 kJ kg^{-1}
Additional operating	Ignition Point	-- K (°C)
	Ignition Range in Air	-- vol.%
	Calorific Value to DIN 51850	-- kJ kg^{-3}

The provided data, values and information corresponds to the state of knowledge at the time of printing. They assert no claim for accuracy or completeness and in this respect do not absolve the user from their duty of verification.
Status: 07.2015