



**Westfalen**

## Product sheet Protadur® E 948 (Oxygen)

Product name	Protadur® E 948 (Oxygen)
Physical state	gaseous, compressed
Chemical sign	O <sub>2</sub>
Chemical designation	O <sub>2</sub>
Purity	99,0 %
Standard	is not subject to any standard
Properties	see safety data sheet
Shoulder color	pure white (RAL 9010)

Minor components	Maximum values
Moisture	500,0 vol. ppm
Hydrocarbons	100,0 vol. ppm

Name	Material number	Bottle type	Bottle container volume	Vapour/filling pressure	Content	Valve	Properties
Protadur E 948 T50 RCyl.	S02020150	steel	50,0 l	200,0 bar	10,6 m <sup>3</sup>	DIN 477 Nr. 9	
Protadur E 948 RBundle12	S02020312	steel	600,0 l	200,0 bar	127,2 m <sup>3</sup>	DIN 477 Nr. 9	

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

Manufacture complies with the requirements of EC Regulation 178/2002/EC and corresponds to purity requirements for food additives according to regulation (EU) 231/2012.

### Typical applications

- for foaming foodstuffs such as desserts and cream
- for packaging under protective atmosphere

### Physical data

Liquid State	Heat of Evaporation	212,98 kJ kg <sup>-1</sup>
	Liquid Density	1141,0 kg m <sup>-3</sup>



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Physical data		
Gas State	Thermal Conductivity (at 288.15 K and 1.013 bar)	0,0254 kg m <sup>-3</sup>
	Density Ratio to Air (at 288.15 K and 1.013 bar)	1,11
	Specific heat (at 298.15 K and 1.013 bar)	0,92 kg m <sup>-3</sup>
	Density (at 273.15 K and 1.013 bar)	1,43 kg m <sup>-3</sup>
Critical Point	Temperature	154,57 (-118,6) K (°C)
	density	436,1 kg m <sup>-3</sup>
	Pressure	50,43 bar
Triple Point	Temperature	54,4 (-218,8) K (°C)
	Vapour Pressure	0,0015 bar
	Heat of Fusion	13,9 kJ kg <sup>-1</sup>

All mentioned data, values and notes correspond to actual state of knowledge on the date of printing. They make no claim to be correct or complete and therefore do not release the user from his obligation to check them.

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