



**Westfalen**

## Product sheet Secudur® O

Product name	Secudur® O
Physical state	gaseous, compressed
Chemical sign	O <sub>2</sub>
Chemical designation	Oxygen
Purity	99,995 %
Standard	is not subject to any standard
Properties	see safety data sheet
Shoulder color	pure white (RAL 9010)

Components	
Oxygen	100,0 vol.%

Minor components	Maximum values
Carbon dioxide	5,0 vol. ppm
Moisture	5,0 vol. ppm
Carbon monoxide	5,0 vol. ppm

Name	Material number	Bottle type	Bottle container volume	Vapour/filling pressure	Content	Valve	Properties
Secudur® O T50 RCyl.	S00080150	steel	50,0 l	200,0 bar	10,6 m <sup>3</sup>	null (G 3/4)	

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.

Secudur® O fulfils the product specifications of the European Pharmacopoeia (PhEur) and is manufactured using the PhEur. Manufacturing analytics with regard to impurities.

Typical applications
<ul style="list-style-type: none"><li>■ in cell biology</li><li>■ in fermentation in biochemical reactors</li></ul>



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