



Westfalen

Product sheet Specidur® Nitrogen

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|----------------|-----------------------|
| Product name | Specidur® Nitrogen |
| Physical state | gaseous, compressed |
| Standard | null |
| Properties | see safety data sheet |
| Shoulder color | jet black (RAL 9005) |

| Minor components | Maximum values |
|---------------------|----------------|
| Hydrocarbons | 50,0 vol. ppb |
| Carbon monoxide | 1,0 vol. ppm |
| Carbon dioxide | 10,0 vol. ppm |
| Oxygen | 2,0 vol. ppm |
| Nitrogen oxide | 20,0 vol. ppb |
| Dinitrogen monoxide | 20,0 vol. ppb |
| Ammonia | 0,1 vol. ppm |

| Name | Material number | Bottle type | Bottle container volume | Vapour/filling pressure | Content | Valve | Properties |
|------------------------------|-----------------|-------------|-------------------------|-------------------------|----------------------|-------------------------------------|------------|
| Specidur® Nitrogen T50 RCyl | A04330150 | steel | 50,0 l | 200,0 bar | 9,6 m ³ | DIN 477 Nr. 10 W 24,32 x 1/14 | |
| Specidur® Nitrogen RBundle12 | A04330312 | steel | 600,0 l | 200,0 bar | 115,2 m ³ | DIN 477 Nr. 10 W 24,32 x 1/14 | |

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.

| Physical data | | |
|-------------------|--|--|
| operating figures | Molar mass | 28,01 g mol ⁻¹ |
| Liquid State | Heat of Evaporation | 198,70 kJ kg ⁻¹ |
| | Liquid Density | 808,6 kg m ⁻³ |
| Gas State | Thermal Conductivity (at 288.15 K and 1.013 bar) | 0,0250 J s ⁻¹ m ⁻¹ K ⁻¹ |
| | Density Ratio to Air (at 288.15 K and 1.013 bar) | 0,97 |



| Physical data | | |
|----------------|---|--|
| | Specific heat (at 298.15 K and 1.013 bar) | 1,04 kJ kg ⁻¹ K ⁻¹ |
| | Density (at 273.15 K and 1.013 bar) | 1,25 kg m ⁻³ |
| Critical Point | Temperature | 126,2 (-147,0) K (°C) |
| | density | 314 kg m ⁻³ |
| | Pressure | 34,00 bar |
| Triple Point | Temperature | 63,2 (-210,0) K (°C) |
| | Vapour Pressure | 0,1253 bar |
| | Heat of Fusion | 25,8 kJ kg ⁻¹ |

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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