

Marking

CAS-Number	7782-44-7
Characterization acc. ADR	UN 1072, Oxygen, compressed, 2.2 (5.1) Class 2, 1 O

Cylinder Marking

shoulder:
white

Essential properties

Colourless, odorless, oxidizing gas, compressed, slightly heavier than air.

Symbols of Risks

oxidizing



gas, compressed

Physical Properties

molecular weight:	31,9988 kg/kmol
gas density at 0°C and 1,013 bar:	1,429 kg/m ³
density ratio to air:	1,1052

For additional safety information see Material-/safety data sheet No. *-O2-097A

Valves / Manifolds

Valve connection	200 bar: acc. to national standards 300 bar: ISO 5145 No. 7;
Recommended Manifolds	Spectrolab FM 51 / FM 52exact

**Specifications / Forms of delivery**

		4.5	5.0	5.5	
Composition					
O ₂	>	99,995 <small>(incl. rare gases)</small>	99,999 <small>(incl. rare gases)</small>	99,9995 <small>(incl. rare gases)</small>	Vol.-%
Impurities					
H ₂ O	<	5	2	0,5	ppmv
N ₂	<	20	5	1,3	ppmv
THC (as CH ₄)	<	0,5	0,2	0,1	ppmv
CO + CO ₂	<	0,5	0,4	0,2	ppmv
Cylinders / Contents					
F 10 200 bar		2,1	2,1	2,1	m ³
F 50 200 bar		10,7	10,7	10,7	m ³
B 12* F 50 200 bar		128,3	-	-	m ³

Remarks

Applications:
Oxidizing gas for special analytical processes (e.g. total organic carbon [TOC]), also in automotive industries