

Marking

CAS

Characterization acc. ADR

Cylinder Marking

7782-44-7
UN 1072 OXYGEN,
COMPRESSED, 2.2 (5.1), (E)

Shoulder color: white

Essential properties

compressed gas, colorless, odorless, oxidizing

Symbols of risks**Physical Properties**

molecular weight	31,9988 kg/mol
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 safety data sheet *-O2-097A

Valves / Manifolds

Valve connection

200 bar: acc. to national regulations
300 bar: ISO 5145 Nr. 7:

Recommended Manifolds

Spectrolab FM 51 / FM 52exact



Specification / receptacles						
		Oxygen 4.5	Oxygen 4.8	Oxygen 5.0	Oxygen 5.5	
Composition						
O ₂ incl. noble gases	≥	99.995	99.998	99.999	99.9995	Vol.-%
Impurities						
N ₂	≤	20	15	5	1.3	ppmv
HC (as CH ₄)	≤	0.5	0.5	0.2	0.1	ppmv
CO + CO ₂	≤	0.5	0.5	0.4	0.2	ppmv
H ₂ O	≤	5	3	2	0.5	ppmv

Remarks

Applications:

Oxidizing gas for special analytical processes (e.g. total organic carbon [TOC])

Oxidizing gas also in automotive industries for analysis of hydrocarbon emissions.

Contents in m³ at 15 °C, 1 bar