PURE GASES

Marking

CAS-Number 7664-41-7

Characterization acc. ADR

UN 1005, Ammonia, anhydrous, 2.3

Class 2, 2 TC

Cylinder Marking



shoulder: yellow

Essential properties

toxic, corrosive, hardly inflammable gas with characteristic odor, liquified, lighter than air.

Symbols of Risks





environmental impact



gas, liquified

Physical Properties

molecular weight: 17,304 kg/kmol gas density at 0°C and 1,013 bar: 0,7714 kg/m3 0,5966 density ratio to air: vapour pressure at 20°C: 8,5737 bar

For additional safety information see Material-/safety data sheet No. *-NH3-002

Valves / Manifolds

Valve connection acc. to national standards **Recommended Manifolds** Spectrocem FE 121 SP; Control valve PN 40



Specifications / Forms of delivery				
		Ammonia 3.8	UHP	
Composition				
NH₃	>	99,98	-	Gew%
NH ₃	>	-	99,998	Vol%
Impurities				
H ₂ O	<	100	-	ppmw
Oil	<	5	-	ppmw
O ₂ + Ar	<	-	1	ppmv
N_2	<	-	5	ppmv
H ₂ O	<	-	5	ppmv
HC	<	-	1	ppmv
CO	<	-	1	ppmv
Cylinders / Contents				
F 40		-	21,0	kg
F 70		35,0	-	kg
F 79		41,0	-	kg
F 127		66,0	-	kg
barrel 900 - 1000 L		500,0 - 612,0	-	kg

Remarks

Applications:

Production of fertilizers, precursor for nitric acid, building block in pharmaceutical industries, part of household cleaners, cooling agent, heat treatment in metallurgy

UHP: agent for building isolation layers of $\mathrm{Si}_3\mathrm{N}_4$ in photovoltaics and semiconductor industries

For larger demands barrel supply is possible.

Delivery only with ultimate consumers declaration! No delivery to private person! Messer Tehnogas AD

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