

Marking

CAS-Number	7664-41-7
Characterization acc. ADR	UN 1005, Ammonia, anhydrous, 2.3 (8) 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



toxic



environmental impact



corrosive



gas, liquified

Physical Properties

molecular weight:	17,304 kg/kmol
gas density at 0°C and 1,013 bar:	0,7714 kg/m ³
density ratio to air:	0,5966
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 / Cylinders

		Ammonia 3.8	UHP	
Composition				
NH ₃	>	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 Si₃N₄ in photovoltaics and semiconductor industries

For larger demands barrel supply is possible.

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