

	Doc Name:	Ammonia Product Specification	Page: 1 of 1
	Doc No.	HPC-PR-SPE-001	Rev: 1

1-Ammonia Production: (has been manufactured using TOPSOE licensed technology)

Products Specifications		
State:	liquid	
NH ₃ , min	99.9 wt%	
H ₂ O, max	0.1 wt%	
Oil content, max	5 ppm wt.	
	To urea ↓	To storage ↓
Normal Pressure, barg	24	5
Normal Temperature, °C	20	-33
Design capacity (as 100% NH ₃)	2200 MTPD	
	726000 MTPY	

2- PHYSICAL AND CHEMICAL PROPERTIES:

Color	colorless
Odor	very pungent
Melting Point	-78 °C
Boiling point	-33 °C at 1.013 hPa
Flash point	132 °C - closed cup
Ignition temperature	651 °C
Lower explosion limit	15 %(V)
Upper explosion limit	25 %(V)
Vapor pressure	6.402 hPa at 15.5 °C 8.866 hPa at 21 °C
PH	11.1 _ 11.6
Density (Liquid @ -33°C & 1 bar)	681 Kg/m ³
Density (Vapor @ -33°C & 1 bar)	0.88 Kg/m ³