



# Futrol Petrochem

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## TECHNICAL DATA SHEET

### SPECIFICATION OF AMMONIA

#### PRODUCT INFORMATION

Ammonia is a nitrogen precursor for silicon nitride and metal nitride thin films

#### CHARACTERISTICS

Colorless Flammable liquefied gas with a penetrating and suffocating order

#### PHYSICAL

#### DATA

<b>Molecular weight</b>	[g/mol]	<b>17.031</b>		
<b>Boiling point</b>	at 1.013 bar [°C]	<b>-33.43</b>	at 14.5 psi [°F]	<b>-241.17</b>
<b>Density</b>	at 1.013 bar, 15 °C[kh/m <sup>3</sup> ]	<b>0.728</b>	at a atm., 70 °F[ib/ft <sup>3</sup> ]	<b>0.044</b>
<b>Vapor pressure</b>	at 0 °C[bar]	<b>4.29</b>	at 32 °F [psi]	<b>62.21</b>
	at 20 °C[bar]	<b>8.55</b>	at 70 °F [psi]	<b>128.51</b>
<b>Flammability range in air (% volume)</b>		<b>15.0~ 30.0</b>		<b>128.51</b>

#### PRODUCT SPECIFICATION

Purity grade	Typical Purity	Typical impurities [ppm]						
		H <sub>2</sub> O	Ar+O <sub>2</sub>	H <sub>2</sub>	N <sub>2</sub>	CO	CO <sub>2</sub>	THC(CH <sub>4</sub> )
5.0N	≥99.999%	≥2	≥1	-	≥5	≥0.5	≥0.5	≥1
6.5N	≥99.99995%	0.1	0.1	0.1	0.1	0.01	0.01	0.02

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