

AMMONIA CRACKER

Hydrogen Generation by Ammonia Cracking

We are manufacturing Hydrogen Generation Units based on Ammonia Cracker Plant produces Cracked Ammonia (NH₃) Gas using anhydrous ammonia. Cracked ammonia contains 75% Hydrogen and 25% Nitrogen and the product gas is very dry & oxygen free. If required a Puri Dryer to achieve Zero traces of uncracked ammonia and upto (-) 70 °C dew point.

1. Brazing Process
2. Metal Powder annealing Process
3. Galvanization
4. Deoxidization
5. Stainless Steel wire annealing Process



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The cracked is passed through a pre cooler where temperature of cracked ammonia is decreased. After decreasing the temperature cracked ammonia is passed through one adsorber tower where desiccant (molecular sieves) are filled. Moisture is adsorbed and dry ammonia @ dew point of - 60 ° c comes out from the top through a three way valve and goes to outlet through rotameter. At a time, one adsorber remains in adsorption cycle while the other tower undergoes regeneration by hot dry ammonia. For this around 5 % purge ammonia is taken from the outlet of drying adsorber and is passed through an internal heater and this hot dry cracked ammonia regenerates the other tower



AMMONIA CRACKER WITH PURI DRYER