

Ammonia Cracking Hydrogen Process 300-350 Nm³/Hr Steel Production

Our Product Introduction

Basic Information

- Place of Origin: SUZHOU, CHINA
- Brand Name: SUMAIRUI GAS
- Certification: CE, ISO9001, SGS, TUV
- Model Number: OSA-300
- Minimum Order Quantity: 1 set
- Price: Negotiable
- Packaging Details: Exporting wooden case /Film packing
- Delivery Time: 30-45 days
- Payment Terms: L/C, T/T, Western Union, MoneyGram
- Supply Ability: 100 sets/months



Product Specification

- Capacity: 300-350 Nm³/hr
- Material: Mild Steel/Stainless Steel
- Reactor: Inconel 600
- Certificates: CE, ISO, ASME, GOST, KGS, NB Etc
- Color: RAL9010/Customized
- Application: Stainless Steel , Cooper, Alloy
- Operation Mode: Fully Automatic
- Driving Type: Electrical
- Working Mode: Fully Automatic, 24 Hrs Non-stop
- Highlight: **crack ammonia to hydrogen,
ammonia cracking process,
ammonia cracking to hydrogen**

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Product Description

OSA300 300-350 Nm³/hr High purity ammonia cracker produce hydrogen system supply for steel production

BASIC DESCRIPTION

Ammonia gas from cylinders passed over a bed of nickel catalyst at 850°C temperature and cracking take place in two different gas i.e. 75% Hydrogen and 25% Nitrogen.

$2\text{NH}_3 \rightarrow \text{N}_2 + 3\text{H}_2$ (IN PRESENCE OF NICKEL CATALYST AT 850°C)

Ammonia cracking is endothermic reaction and require heat from other source. The source is electrically heated/gas fired furnace (Rectangular Shape) and a retort made of heat resistance alloy is provided to hold the ammonia cracking catalyst.

Cracked ammonia from furnace is cooled to ambient temperature in a shell & Tube type heat exchanger and having dew point around (-) 30°C. Further product gas is passed through a molecular sieves filled Gas Purifier to achieve a dew point up to (-) 80°C

SALIENT FEATURES

Centrifugally cast retort
Furnace skin temperature is 20°C
Dew Point up to (-) 80°C
Heating Element is Ni-Cr (80-20%)
Long service cycle, Negligible maintenance, High turn down ratio
Heavy duty operations for years and years
Fully automatic no need of operator

APPLICATION

Heat Treatment Furnace for bright annealing
Brazing Industry
For Gas Purification System
Stainless Steel Industry
Power Sector

Major applications of Ammonia Cracker Unit

- I On site Generation of cracked gas Ammonia
- I For Nitrogen Generation Plants
- I Pipe Manufacturing Industry
- I Sintered Brazing Industry
- I Galvanizing Plants
- I Automobile Industry
- I Heat Treatments





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