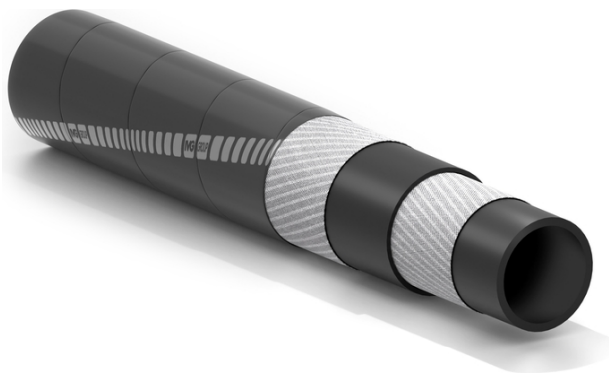


# Ammotech

## Anhydrous ammonia hose



**Application:**

softwall hose for the delivery of liquid and gaseous anhydrous ammonia. It is particularly used in the processes of production of fertilizers. The operator must be instructed on use and maintenance of the hose for anhydrous ammonia. Failures in service may produce damage to people and property. Periodic inspections and tests allow detection of signals indicating the deterioration of the hoses or the loss of performance, before coming to malfunctions or failures.

Critical use  
Safety factor 5:1  
Safe and durable

**Specifications:**

UNI EN ISO 5771:2008.



**Tube:**

black, smooth, antistatic synthetic rubber.

**Reinforcement:**

high strength synthetic cord.

**Cover:**

black, smooth (wrapped finish), antistatic synthetic rubber, resistant to chemicals, abrasion, ozone and weathering. Pin pricked cover.

**Temperature:**

from -40°C (-40°F) up to + 55°C (+131°F).

**Electrical resistance:**

$R \leq 1 \times 10^6 \Omega/m$ .

**Branding:**

embossed marking: IVG CHEM AMMOTECH - ANHYDROUS AMMONIA - ISO 5771...



# Ammotech



Code	Inside diameter		Outside diameter		Working pressure		Burst pressure		Weight nominal		Length max	
	mm	inch	mm	inch	bar	psi	bar	psi	kg/m	lbs/ft	m	ft
1470876	13	1/2	28	1,10	25	375	125	1875	0,53	0,36	120	400
1500880	16	5/8	31	1,22	25	375	125	1875	0,63	0,42	120	400
1470884	19	3/4	34	1,34	25	375	125	1875	0,69	0,47	120	400
1470892	25	1	42	1,65	25	375	125	1875	0,87	0,59	120	400
1473441	32	1-1/4	49	1,93	25	375	125	1875	1,11	0,75	120	400
1487671	38	1-1/2	58,5	2,30	25	375	125	1875	1,5	1,01	60	200
1486683	50	2	70,5	2,78	25	375	125	1875	1,87	1,26	60	200

Variants available on request:

1. Different diameters.

## SPECIAL DETAILS

### SAFETY HINTS FOR CHEM AMMOTECH HOSE

**WARNING!**

Do not use at temperatures or pressures above those recommended by the manufacturer.

**COUPLINGS.**

Consult the manufacturer's literature or contact him for the appropriate fitting system on the anhydrous ammonia hose. Only use permanent steel fittings in AISI 304/316 with flanged or male threaded ends on hoses for anhydrous ammonia. The anhydrous ammonia hoses must not be connected again under any circumstances.

**INSPECTION PROCEDURES.**

The hoses for anhydrous ammonia have a limited life and the user must be alerted by signs of impending failure.

- **DAILY INSPECTION**  
Prior to use daily, a visual inspection should be performed. If you noticed unusual aspects, the hose shall be subject to the pressure test.
- **NEW ASSEMBLY**  
All new hoses must be tested before use to determine if there is any damage during storage or transport.
- **NORMAL USE**  
When the hose for anhydrous ammonia is subject to ordinary use, the frequency of testing should be every 90 days for the first year and every 30 days thereafter.
- **HARD USE**  
The hose assemblies shall be tested immediately after they are subjected to abnormal use as traction end. Flanged hoses, crushed by vehicles, or subject to kink must be removed from service.
- **HEAVY DUTY**  
Hoses for anhydrous ammonia subject to severe use, such as driving on surface edges, bent with narrow angles, or continuously exposed to the weather conditions, deteriorate more quickly than hoses handled with care. Hoses under heavy use must be tested every 30 days from the date of installation.



## SPECIAL DETAILS

### WARNINGS AND PRECAUTIONS

Rubber hoses have a service life proportional to their usage.

The equipment and systems where the hose is installed must be designed to ensure safe operation. Given the wide range of possible applications, IVG Colbachini does not guarantee suitability for all specific uses. The selection of the most appropriate product for the intended application, ensuring the required performance and safety standards, is the sole responsibility of the user.

IVG Colbachini shall therefore not be held liable for any use other than those indicated in its catalogues, product data sheets, quotations, order confirmations, or any accompanying recommendations.

Improper product selection and/or use, or failure to comply with installation, operation, maintenance, and storage procedures, may result in hose failure and cause damage to property or personal injury.

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IVG Colbachini manufactures and markets both assembled hoses and hoses supplied without fittings.

#### Assembled Hoses

Before being placed on the market, the hose assembly is subjected by IVG to manufacturing control tests carried out by qualified personnel.

IVG declines all responsibility for any subsequent modifications, disassembly, or reinstallation of fittings performed by the user, as well as for uses that differ from those indicated in the product data sheet or in the absence of maintenance programs and periodic inspections.

#### Hoses and Fittings as spare parts

The user is responsible for assembling the hose and fittings, ensuring proper hose/fitting compatibility and compliance with the technical specifications for use. It is recommended that the hose assembly be subjected to a pressure tightness test carried out by qualified personnel.

IVG declines all responsibility in this regard.

#### Precautions

For proper selection and correct use of IVG products, reference should also be made to the recommendations issued by Assogomma, available at [www.ivgspa.it](http://www.ivgspa.it), in accordance with ISO 8331 regarding installation, maintenance, methods and duration of use, as well as fitting stability and tightness.

**For safety reasons, the working pressure indicated in the product technical data sheet must never be exceeded.**

**In general, continuous operation at maximum allowable pressure and/or temperature may significantly reduce the hose service life. Regular inspections and hydrostatic testing at the specified test pressure must therefore be carried out. Hydrostatic tests must be performed by adequately trained personnel using suitable equipment and in accordance with recognized testing standards.**

For specific applications of rubber hoses, reference should be made to applicable legal requirements or compliance standards. Additional recommendations are available for particularly critical applications. For further information, please contact [info@ivgspa.it](mailto:info@ivgspa.it).