



The triumphant march of the new aerosol technology began in Europe in 1955, with the first businesses being established specifically to manufacture sprays. For the next 20 years, this new sector concentrated on putting existing liquids and active ingredients into spray cans. In 1975, the Swiss company METAFLEX AG brought out a completely new design of spray, one which for the first time ever enabled problem-free coating of steel with zinc, achieving quality levels that exceeded all international standards. In the years that followed, METAFLEX took the development of metallic sprays further, using aluminium, stainless steel, brass, copper and titanium for surface coating and also developing metal-containing lubricating pastes.

At the same time, the German METAFLEX sales organisation TECHNO-SERVICE GmbH in Bielefeld was being developed; the company has steadily adapted its office and storage areas to the expanding capacity requirements of its domestic and export business. As recently as 2007, the logistics centre was expanded to accommodate an additional 150 pallet bays. Today, two aerosol factories affiliated with METAFLEX AG apply their experience, gained from over 50 years and an annual capacity of 60-70 million cans, to ensure consistently high quality. AMETA is proud to represent METAFLEX AG in Canada since 11 years.

The METAFLEX product range comprises over 75 sprays developed in-house, and every year sees fresh innovations added to it. But one constant in all METAFLEX development is the emphasis placed on these three principles:

- The highest possible technical quality
- The lowest possible air contamination in the work-place
- Maximum consideration for the environment

Strict respect for these principles guarantees that METAFLEX sprays will continue to be an internationally leading product range going forward.

Metaflux is also your expert partner for:

- Industrial cleaners
- Welding products





Metaflux - compelling quality

Welcome to METAFLEX!

The combination of German and Swiss production and marketing companies creates an international brand with an emphasis on three principles worldwide:

- The highest possible technical quality
- A comprehensive production programme
- Individual customer advice and support

Metaflux products repay the investment many times over. Experience our high standards for yourself, and draw inspiration from this catalogue for any of the following:

- Metallic coatings
- Lubricants
- Multifunction sprays
- Welding protection
- Upkeep
- Maintenance
- Cleaning

We are pleased to offer on-site advice and assistance – just call us in!

Our outstandingly-trained technical consultants will be pleased to present our full range of products to you – naturally, without obligation.

***CHALLENGE US –
WE DELIVER!***



Hotline 1 888 452-6382

The principle behind the spray can

The principle behind the spray can is as simple as it is inspired: using the internal pressure of the spray can, its contents are released as an aerosol precisely at the time you press on the button.

The secret of how it works lies in the mix of the active ingredient (the actual product) and the liquid propellant inside the spray can: for this, one part of the propellant is dissolved in the active ingredient, and a second part sits as a gas like a “pressure pad” above the ingredient-propellant mix. If the button is depressed, the gas propellant forces the contents through the valve to the outside. At that instant, the propellant vaporizes in fractions of a second, and the active ingredient that is left behind is distributed very finely and evenly – just the way the user needs to have his product.

The fineness of these drops is only achieved using spray cans: the active ingredient is applied finely, economically and evenly and dries rapidly. Pump sprays cannot achieve these unique properties of aerosols, and are therefore unsuitable for many products.

How a spray can is assembled

The basic component is generally a metal container: the actual spray can itself, in tinplate or aluminium. The base of this can is concave, for two reasons:

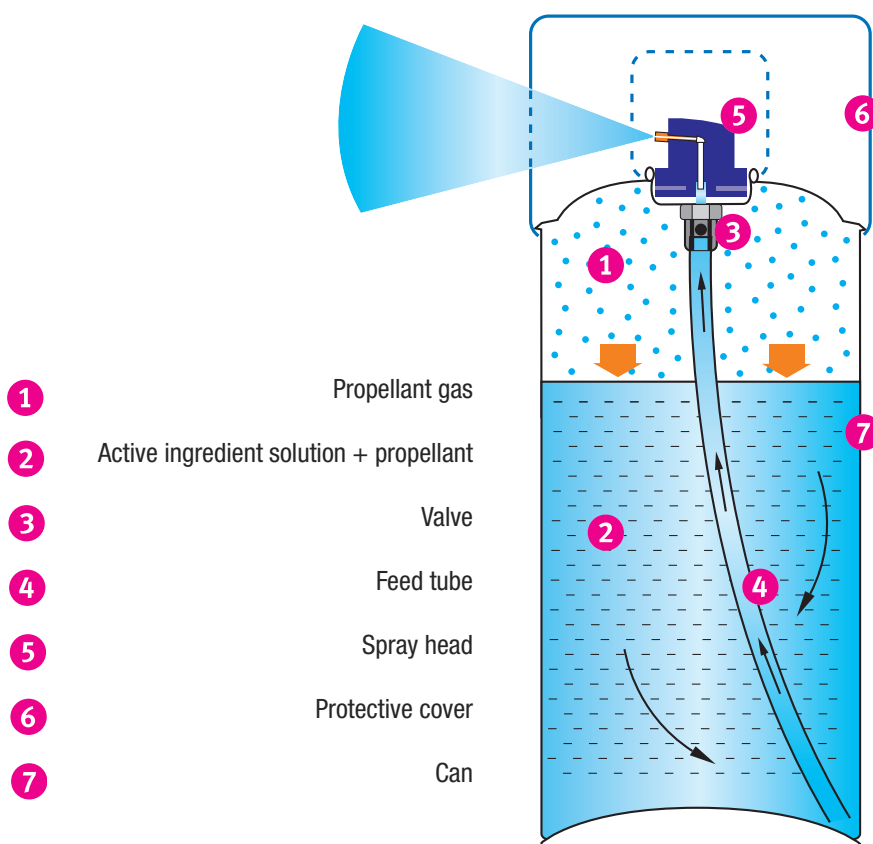
- For safety reasons: if overpressure is generated due to the strong influence of heat, it allows the base to bend outwards and thus alleviate the pressure. It means that the integrity of the spray can is not compromised despite the overpressure.

- For efficient use of the product: the vertical feeder tube running down the base against the inner wall of the can is able to reach the very last drops of the product when the base itself is concave.

The valve, the spray head and the protective cover are located at the top of the metal container: the valve and spray head are responsible for “atomising” the product and for precise dosing. The spray head is provided with a protective cover. The valve body is connected to a vertical feeder tube leading into the inside of the spray can. It extends down to the base and ensures that the can is emptied completely and evenly.

The gas phase inside the can also serves as an expansion space. This ensures that the filled aerosol can can even withstand temperatures up to +50 °C.

An essential element in aerosols is the liquid propellant or propellant gas, since this generates the pressure needed for spraying. And ultimately, the even the most sophisticated design would be nothing without the product. The active ingredient which is intended for spraying is similarly in liquid form and is mixed with the propellant or propellant gas in the can.



IMPORTANT NOTICE: All information in this brochure is based on our extensive experience, gained over many years, in the manufacture of chemical products and their application. It is also based on external and internal testing in laboratories and in practical tests conducted in-house.

Due to the variety of the products and their range of possible uses, we recommend that in the specific instance the proposed application is assessed on the basis of your own operational experience. Technical data sheets and safety data sheets are available for all products, in each case reflecting the latest knowledge and understanding. Further to this, there are corresponding recommendations on each individual product pack. Due to the range of possible applications, neither the manufacturer nor the marketing companies domestically or in other countries give a guarantee either expressly or tacitly as to particular outcomes from use of the product and the durability of same, or for the product lifetimes.

Sample colour sheets



The colour samples shown for the RAL tones and the metallic coatings are not binding, due to reasons associated with the print process.

Metaflux skin protection plan

Skincare products are envisaged for use during and after work. They protect and care for the skin when working with materials that are hazardous to it.

Skincare products guard against the effects of materials that can harm the skin. The earlier such products are applied, the better the protection and the caring effect for the skin.

Skincare products work best if used as part of a full range comprising compounds to protect, clean and care for the skin. To address this challenge, Metaflux has developed the skin protection plan. We would be pleased to supply this with the relevant products.

See pages 52/53.



Explanation of symbols used



Copper and Nickel free



High pressure resistance



Permanently elastic adhesive



Frost-resistant



Weather-resistant



Impact-resistant



Dermatologically tested



Prevents contact with air



Suitable for use in food industry applications



Water-repellent



UV stabilized



Prevents current leak



Non-combustible



NSF Approved



www.inspection.gc.ca



Non-rusting