

The diffusion-proof system, multi-purpose and spraying at all angles

The entirely aluminium two-chamber pressure pack, Nussbaum Can-in-Can. Here, consultant Claudia Maurer-Brucher walks us through this aerosol system

The market for two-chamber pressure packs is a large one and is primarily dominated by bag on valve systems, consisting of a can and a laminated bag, which is mounted directly on the valve. The Nussbaum Can-in-Can system replaces the bag with a very thin aluminium pouch, comparable in its characteristics with an aluminium tube, which is firmly connected to the outer can.

The system ensures the absolute separation of the product and the propellant, providing the most effective diffusion barrier of all comparable systems. The big advantage is that the product may be filled through the one-inch opening, which makes it ideal for high-viscose substances like silicones, pastes and greases, which hardly pass through common valves. Furthermore, it may be used upside down and at any angle, ensuring an easy application in areas difficult to be reached.

The gassing of the pressure pack is very simple and is done through the hole in the outer-can bottom, or by needle gassing through the rubber plug that can be pre-inserted in the bottom of the can on request. The one-inch opening fits all common valves and actuator systems, and standard propellants are compatible with this pressure pack. Liquid propellants – generally propane/butane mixtures – ensure a constant pressure and therefore guarantee a uniform application amount per unit of time. With inert gasses like compressed air or nitrogen the pressure in the can might decline as the product is used. This may however be compensated with higher pressure.

For the pouch containing the product, a wide range of inner linings is available. Stability tests to ensure compatibility between the lining and the filling fluid are recommended. The container is constructed for a pressure rating of 18 bar. Depending on fill level and used propellant, Nussbaum supplies cans rated up to 22.5 bar.

The Nussbaum Can-in-Can is used in the technical and automotive sector for various viscous products such as silicones,

acrylics, fats for special applications, brake pastes, copper, ceramic and aluminium greases, as well as adhesives, sealants and compressor oils. In the personal care sector, typical applications are hair dyes and colourants as well as shaving gels. This pressure pack is also suitable for healthcare products and animal feed supplements, and is proving to be a reliable packaging for food applications. Sauces, dressings and honey are only a few of the products sold in Nussbaum Can-in-Can systems.



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The Nussbaum Can-in-Can system is available in various sizes for filling volumes of 32 to 290ml, and diameters offered are 31.5, 40 and 50mm. Nussbaum Can-in-Can is available with a white or aluminium brushed surface, printed with a decoration made of up to six colours and protected in a gloss, semi-matt or matt finish. The flat and round shoulder shapes give the can a premium appearance.

Recyclability

Both elements of the pressure pack – the outer can and the inner pouch – are made of high-quality aluminium, making the Nussbaum Can-in-Can system the only two-chamber system in the world with an inner bag made of pure aluminium. This packaging is therefore perfectly recyclable using a material which may be recycled indefinitely making it one of the most energy-efficient and resource-preserving raw-materials. Around 75% of the aluminium ever produced is still in use today and has already been recycled several times.

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The versatility of the system lends itself to multiple applications