

Title (en)
GASTIGHT CONTAINER

Title (de)
GASDICHTER BEHÄLTER

Title (fr)
CONTENANT ETANCHE AU GAZ

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Application
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Abstract (en)
[origin: WO02088593A1] The invention relates to a gastight, pressure-resistant storage and/or transport container (10) for low-molecular, reactive filling media, especially for hydrogen, oxygen, air, methane and/or methanol. Said container has a high filling pressure and is embodied in an essentially rotationally symmetric manner, having at least one connector cap (15) with a sealing device (16). The wall (12) of the container is essentially comprised of a thermoplastic synthetic material having at least one diffusion barrier (18, 19) system and/or a diffusion barrier and anti-corrosion system (18, 19). In order to offer protection for hydrogen and oxygen containers, the diffusion barrier system can be embodied in the form of at least one compact layer and/or can contain finely dispersed, distributed reactive nanoparticles (18) in the wall (12) of the container, in at least one composite film (28) and/or in at least one diffusion barrier layer (18).

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