

Hydrogen - Reliably transported with AGRU PE 100-RC

Due to its enormous energy density (140 MJ/kg ~ 39 kWh/kg), hydrogen (H₂) is an attractive option for energy storage. Compared to fossil fuels such as coal, oil, wood or natural gas, the combustion of H₂ does not produce carbon dioxide. Hydrogen will be an important building block in the transformation of our energy system from fossil fuels to renewable energies - AGRU is part of the solution!

The majority of AGRULINE products are already „H₂ready“ - tested and thus suitable for the transport of hydrogen.

That PE pipes are suitable for hydrogen transport has already been proven by the renowned Dutch accreditation institute Kiwa [1]. With the „H₂ready“ test [2] now introduced by the Gas Technology Institute DBI, a 100% subsidiary of the DVGW, another important step has been taken to confirm the suitability of products for the use, storage and transport of hydrogen or hydrogen-natural gas mixtures.



AGRULINE PE 100-RC - The No. 1 solution for hydrogen

The majority of AGRULINE products are already „H₂ready“ and thus demonstrably suitable for the transport of hydrogen. AGRULINE products have been ensuring the clean, safe and reliable transport of gas and water for decades. It is therefore obvious to use this proven system for the transport of hydrogen as well. Plastic pipes made of PE 100-RC have decisive advantages over alternative piping systems (steel, cast iron, multi-layer systems, other types of plastic) for this application: they are lightweight, cost-effective, low-maintenance, easy to install, reliable and weldable homogeneously and longitudinally force-locked. In addition, they are not prone to hydrogen embrittlement and corrosion or other chemical reactions with hydrogen, as is the case in metal pipelines.

Successful use of H₂ as an energy carrier stands and falls with the development of efficient, sustainable production of so-called „green hydrogen“ through the electrolysis of water using renewable energies, as well as storage and conversion into other forms of energy with as little loss as possible. Safe and efficient transport from the producer to consumer will play a key role here, as it already has with natural gas.



Information on the **AGRULINE** product range as well as for all customer-relevant technical details:

Kurt Berger
Application Technology / Product Engineer
Phone: +43 7258 790 3308
mailto: bku@agru.at

[1] Proceedings of (kiwa.com)



[2] h₂ready (DBI-GRUPPE)



[3] The Öhringen Hydrogen Island (ZSW)

