VANADIUM ELECTROLYTE FOR ENERGY STORAGE

AMG Titanium, Nuremberg, Germany

AMG Titanium is a world leading manufacturer of high-performance metals and materials for the aerospace, energy, automotive, and special metals industries. Whether vanadium oxides or chemicals for catalyst applications, titanium aluminides for aircraft engines, master alloys for the titanium industry used in a wide range of aerospace applications or spherical metal powders for 3D printers – the products manufactured by AMG Titanium are used in a wide range of industries. With the vanadium electrolyte (VEL), AMG Titanium is supporting the battery and energy storage market for the energy transition.

AMG TITANIUM – LARGEST PRODUCTION PLANT FOR VANADIUM ELECTROLYTE IN EUROPE

VEL production in Nuremberg, Germany

- Production capacity of 6,000 m³ per year in Nuremberg, Germany.
- The VEL meets the highest quality requirements of customers, both manufacturers and users of vanadium redox flow batteries (VRFB).
- Group-internal supply of electrolyte to support AMG's LIVA Hybrid Energy Storage System (Hybrid ESS).
- 6,000 m³ of vanadium electrolyte provides an energy storage capacity of around 100,000 kWh.
- In-house vanadium oxide production as raw material basis for vanadium electrolyte production.

EXCEPTIONAL CO_2 FOOTPRINT IN AMG'S PRODUCTION CHAIN FROM RAW MATERIAL TO VANADIUM ELECTROLYTE

- Vanadium oxide production is based on vanadium-containing refinery waste such as gasification residues and spent catalysts (up to 100%).
- Production from vanadium oxide to VEL also offers a better CO_2 footprint due to lower electricity consumption when comparing similar production routes.
- AMG Vanadium (Vanadium containing raw material), AMG Titanium (VEL process know-how), AMG Engineering/ALD (VEL plant design) and AMG LIVA (energy storage systems): the AMG Group has a unique combination of expertise and experience for the benefit of its stakeholders.

VEL meets the highest quality requirements of customers

"AMG Titanium aims to be the leading producer of vanadium electrolyte in Europe. VEL enables vanadium redox flow battery manufacturers to participate in the growing market for battery storage systems and to help VRFB customers solve the pressing energy storage issues of the present and future."

Guido Löber, CEO AMG Titanium

AMG Titanium (GfE) is a subsidiary of AMG Critical Materials N.V., a company at the forefront of CO_2 reduction trends.

More information about AMG Titanium: