

News Release

CHINAPLAS 2025: BASF and WAL Low Carbon Technology co-create advanced plastic air tank for commercial vehicles

- **First plastic air tank for commercial vehicles made with BASF's high-performance Ultramid® polyamide**
- **Air tank up to 20% lower in weight compared to aluminum alternatives**
- **BASF at CHINAPLAS 2025: Hall 17 Booth D91, World Exhibition and Convention Center (Shenzhen)**

Shanghai, China – March 18, 2025 – At CHINAPLAS 2025, BASF will showcase a commercial vehicle air tank co-created with WAL Low Carbon Technology (Anhui) Co. Ltd (WAL) and made with BASF's high-performance material solution Ultramid® polyamide. The innovative solution achieves a weight reduction of 10-20% compared to aluminum alternatives and over 50% compared to steel versions.

Production of the air tank is also more energy efficient, since it only needs a one-piece injection molding process. This eliminates the need for secondary welding operations that are typically required for metal versions.

“Lightweighting of vehicles contributes to energy efficiency, which lowers fuel consumption and carbon emissions. The successful collaboration with BASF on this air tank project strengthens our position as a technology leader in the commercial vehicle components industry and enables us to better serve our customers' needs for high-performance and sustainable solutions,” said Karl Song, Chief Technology Officer of WAL Low Carbon Technology.

Owing to the superior mechanical properties of BASF's innovative material solution Ultramid, the air tank exhibits exceptional rigidity, welding line strength and UV resistance. Combined with its high burst pressure resistance of above 50 bar (5MPa), the solution demonstrates consistent product quality and reliability in this demanding application.

"The co-creation with WAL demonstrates our ability to meet demanding high-pressure applications. This also validates the potential of our material solution to meet other automotive applications where high burst pressure resistance is required," said Eng Guan Soh, Vice President, Business Management Engineering Plastics, Performance Materials Asia Pacific, BASF.

About BASF

At BASF, we create chemistry for a sustainable future. Our ambition: We want to be the preferred chemical company to enable our customers' green transformation. We combine economic success with environmental protection and social responsibility. Around 112,000 employees in the BASF Group contribute to the success of our customers in nearly all sectors and almost every country in the world. Our portfolio comprises, as core businesses, the segments Chemicals, Materials, Industrial Solutions, and Nutrition & Care; our standalone businesses are bundled in the segments Surface Technologies and Agricultural Solutions. BASF generated sales of €65.3 billion in 2024. BASF shares are traded on the stock exchange in Frankfurt (BAS) and as American Depositary Receipts (BASFY) in the United States. Further information at www.basf.com.

About BASF's Performance Materials division

BASF's Performance Materials division leads the transformation of the plastics industry by merging sustainability with a competitive edge. Our broad material competencies and product portfolio, backed by deep industry knowledge and understanding, make us the ideal one-stop-shop. With dedicated material-focused teams and strong R&D power, we constantly deliver industry-leading technologies and expertise to our customers worldwide. Our global network ensures a competitive advantage through superior innovations, regional proximity, and tailor-made solutions that meet local market demands. We are committed to enhancing performance and efficiency across sectors such as automotive, consumer goods, industrial applications, and construction. With BASF, our partners embark on #OurPlasticsJourney towards a more circular and sustainable future. In 2024, the Performance Materials division achieved global sales of €6.8 billion. Join #OurPlasticsJourney on LinkedIn <https://www.linkedin.com/showcase/basf-performance-materials/> and in our newsletter https://plastics-rubber.basf.com/global/en/performance_polymers/plastics-journey-newsletter