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Gamma titanium aluminide alloys : science and technology
Abstract. Titanium aluminide (TiAl)-based alloys are developed for high-temperature applications in aerospace and automotive industries because of their attractive properties, such as low density, high specific strength, high specific stiffness, and good high-temperature properties. This chapter discusses TiAl-based alloys prepared with the prealloyed (PA) powder metallurgy (PM) technology.

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Titanium aluminide, Ti Al, commonly gamma titanium, is an intermetallic chemical compound. It is lightweight and resistant to oxidation and heat, however it suffers from low ductility. The density of γ-TiAl is about 4.0 g/cm³. It finds use in several applications including aircraft, jet engines, sporting equipment and automobiles.

Titanium aluminide - Wikipedia
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9. Chan K.S.: Developing Hydrogen Tolerant Microstructures for an Alpha-2 Titanium Aluminide Alloy. Metallurgical and Materials Transactions 23A (1992), pp. 497-507. 10. Takasaki A., Furuya Y., Taneda Y.: Hydrogen uptake in titanium aluminides covered with oxide layers. Metallurgical and Materials Transactions 29A (1998), pp. 307-314. 11.