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Gamma titanium aluminide alloys of current interest are two-phase alloys consisting of γ-TiAl phase as the matrix and a α 2-Ti 3 Al phase as the second phase. The properties of these alloys depend on alloy composition, processing, microstructure, and their combination.

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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.

Titanium Aluminide - an overview | ScienceDirect Topics
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.