

Creep resistant aluminium alloys and their applications

J. S. Robinson, R. L. Cudd and J. T. Evans

The CEC funded thematic network CREEPAL (BRRT-CT98-5101) was established in 1998 to collect and disseminate information on the long term creep and thermal mechanical cycling behaviour of aluminium alloys. This paper presents some of the information gathered by consortium members and some additional industrial information related mainly to forging alloys. A short history of the use of aluminium alloys at elevated temperatures is presented. The principal considerations required when evaluating aluminium alloys for use at temperatures in the 100–350°C range are detailed. The important microstructural mechanisms of creep in aluminium alloys are reviewed and the physical metallurgy of Hyduminium-RR.58 (2618A) is examined. The alloys that have found commercial application at elevated temperature are listed. Recent developments are described and opportunities for further development considered.

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Introduction

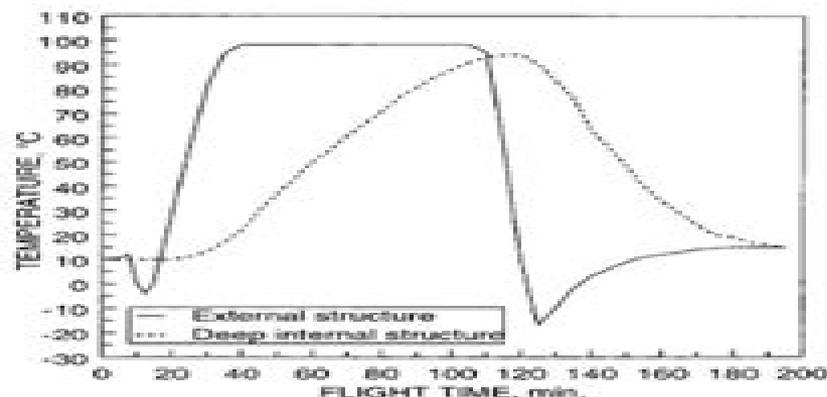
It is just over 115 years since the discovery by C. M. Hall of a commercial relatively low cost method of extraction of aluminium from its oxide.¹ This extraction of the earth's most abundant metallic element led to gradual widespread commercial use of this metal, primarily because of its low density and useful strength. One of its first commercial uses, cast cooking utensils, also recognised another of its important characteristics: high thermal conductivity. This may be considered the first elevated temperature application. In the intervening years the applications of aluminium alloys has been diverse, however the contribution the metal has made to the aerospace industry is difficult to over-estimate. The Wright brothers recognised the value of aluminium in reaching the goal of powered flight. They used an aluminium alloy to achieve critical weight reduction in the four cylinder 9 kW internal combustion petrol engine that powered their first flight in 1903.²

Aluminium alloys were developed for structural and skin materials operating at ambient temperatures and for engine applications where high temperature performance was an important consideration. In the UK, aeroengine manufacturers such as Rolls-Royce understandably took the lead in the development of alloys for high temperature applications in conjunction with companies such as High Duty Alloys, which at that time produced aluminium alloy castings, rolled products, extrusion and forgings. These high performance alloys for use at elevated temperatures were always based on the precipitation hardenable Al-Cu system.

The design of the Concorde supersonic transport (SST) aircraft in the 1950s pinpointed the need for a new creep resistant alloy for the skin of the aircraft. For example, the in flight temperature profile of the skin and structure of Concorde is shown in Fig. 1. The starting point was the alloy Hyduminium-RR.58, which had originally been developed as an engine alloy for pistons (Hyduminium-RR.59) and later for impellers in gas turbines that could operate at 175–250°C for relatively short durations. Production of Hyduminium-RR.58 in sheet form³ met

the requirements for the relatively high skin temperatures of 127°C at the nose and 100°C in the main structure generated at the cruising speed of Mach 2.04.^{3,4}

It is significant that the chemistry of Hyduminium-RR.58, which was very close to one for which Rolls-Royce filed a patent in 1928,⁵ is still the alloy most commonly specified for applications at elevated temperature. (The Aluminium Association, International Aluminium Alloy Designation System (IAIS) composition closest to Hyduminium-RR.58 is 2618A in the UK/Europe and 2618 in North America). Whilst other alloys have been developed with improved high temperature characteristics as will be detailed later, their use for high temperature applications has not been widespread to date.



1 Concorde skin and internal structure temperature; from Ref. 3

Metallic Creep Creep Resistant Alloys

Emilie Sanchez



Metallic Creep Resistant Alloys:

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- Chapter 5: Conclusion

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