NASA 398:

ALUMINUM ALLOY

EXCLUSIVE TO TWIN CITY FAN COMPANIES, LTD.



The NASA Alloys have resulted in significant improvements in the performance of aluminum at temperatures between 302°F to 752°F (150°C and 400°C).

The higher strength capabilities allow fans to be run at higher speed during emergency operation at design temperatures of 482°F, 572°F and 752°F (250°C, 300°C and 400°C).

The performance increases will be available in both jet fans and central tunnel fans.

DEVELOPMENT HISTORY

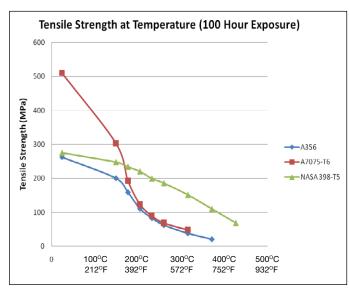
Three alloys (NASA 398, NASA 388, NASA 358) were developed by NASA under a Public and Private Research Grant.

They have unique material properties between 500°F to 752°F (260°C to 400°C). An initial application for the alloys was engine components.

CHARACTERISTICS OF NASA 398

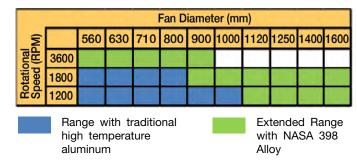
- > Similar to 300 Series aluminums at ambient temp
- Retains 78% at 482°F (250°C)
- At 752°F (400°C) NASA 398 has higher tensile strength than A356, LN6, RR 50, A7075 have at 482°F (250°C)

HIGH TEMPERATURE MATERIALS EXTEND CAPABILITIES OF SMOKE MANAGEMENT FANS



EXTENDED RANGE OF NASA 398

> 752°F (400°C) - 2 hr: Typically fans can be operated at limiting speeds equivalent to those for fans with traditional alloys operating at 482°F (250°C)





CUSTOM IS OUR STANDARD

202 COMMERCE WAY

Pulaski, TN 38478 (931) 424-2500