





#### **4. Conclusion**

This report has described the advantageous mechanical properties of SP-700 alloy, including hot and cold formability and fatigue properties, and introduced promising new applications. Although titanium alloys possess desirable properties such as light weight and high strength, the difficulty of forming and working conventional alloys limits their applications. The SP-700 alloy with its excellent mechanical properties is expected to expand the application of titanium alloys in various new fields where formability and fatigue strength are essen-