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13. ABSTRACT The effects of critical process variables on product quality and pressure requirements were investigated for wrought and powder material; 7075-0 aluminum, AISI 4340 steel, Ti-6Al-4V alloy, beryllium, TZM molybdenum alloy, S. A. P., Alloy 718, A286, Cb752. Products investigated were rounds, shapes, tubing and wire. A study of general high pressure container designs has led to a better understanding of the design parameters to be applied for specific applications. A description of containers designed and constructed in this program is given. This document is subject to special export controls and each transmittal to foreign governments or foreign nationals may be made only with prior approval of the Manufacturing Technology Division of the Air Force Materials Laboratory, Wright-Patterson Air Force Base, Ohio 45433.			

