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A STUDY ON THE CONFIRMATION OF FLUID BEHAVIOR USING SIMULATED PROPELLANTS IN A LOW-GRAVITY ENVIRONMENT

Abstract

This study was conducted to obtain data on the storage and operation of propellants used in projectiles in a low-gravity environment. A drop tower and drop capsule facility that secures an experiment time of about 1.2 s for observing fluid behavior were constructed. The behavior of the cryogenic simulated propellant was confirmed using a low-gravity environment simulation test facility.