

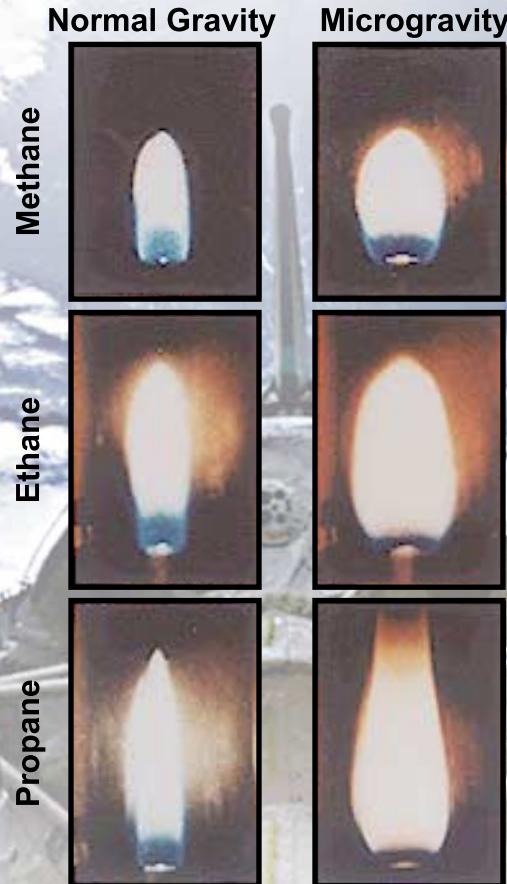


Glenn Research Center



Burke-Schumann Diffusion Flames

$$U_{fu}/U_{ox} = 1.37; r_i = 0.28 \text{ cm}; r_o = 2.33 \text{ cm}$$



Cylindrical Burke-Schumann diffusion flame shape images for different fuels and gravity levels. Oxidizer, air; inlet velocity ratio, U_{fu}/U_{ox} , 1.37; inner tube radius, 0.28 cm; outer tube radius, 2.33 cm; oxygen consumption, $\sim 2.5 \text{ cm}^3/\text{sec}$.