

Procedures: Grain length measured with calipers. 1 2. Nitrogen cylinder connected to porosimeter; nitrogen passed through coil to reach it. 3. Device had three valves, each serving a purpose; first valve maintained constant coil pressure ( $P_1$ ). 9. Last valve opened to release nitrogen from porosimeter; nitrogen cylinder closed to prevent accidents. 7. Two spacers inserted into cell; pressure read (coil  
.(pressure + cell pressure + spacer volume