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A shock wave compression results in a loss of total pressure, meaning that it is a less efficient method of compressing gases for some purposes, for instance in the intake of a scramjet. The appearance of pressure-drag on supersonic aircraft is mostly due to the effect of shock compression on the flow.

Shock wave - Wikipedia

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The Topical Group on Shock Compression of Condensed Matter (SHOCK or SCCM) is a Unit of the American Physical Society (APS). The objective of the SCCM is the advancement and dissemination of knowledge on the physics of materials under dynamic high-pressure loading including shock physics, the effect of shock waves on materials, dynamic behavior ...

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powder mixtures under shock-compression. EXPERIMENTAL Shock recovery experiments were performed over a range of shock pressures using the well designed and calibrated 12-capsule CETR-Sawaoka system for high shock pressures (60-1 00 GPa) at two different velocities (1.9 km/s and 1.1 km/s), a modified 12-

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