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Studies of Richtmyer-Meshkov instability growth in gases at flow Mach numbers from 2 to 9

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The paper presents results of experimental studies of development of turbulent mixing of gases having different densities, when shock wave with Mach number from 2 to 9 passes their interface.

It is revealed that when increasing Mach number of flow, small-scale structures appear in the zone of turbulent mixing, width of the mixing zone is changed.