## Thermal sandblaters of hydrocarbon-air gas generators

© V.A. Chernov<sup>1</sup>, A.V. Sukhov<sup>1</sup>, K.V. Fedotova<sup>1, 2</sup>

- <sup>1</sup> Bauman Moscow State Technical University, Moscow, 105005, Russia
- <sup>2</sup> Baranov Central Institute of Aviation Motor Development, Moscow, 111116, Russia

The article presents theoretical and experimental studies of pressure and ejector thermal sandblaster efficiency for various abrasive materials by sample mass loss measurement. The authors describe the method of approach and instrumentation and demonstrate the mathematical model for thermal sandblaster parameters calculation and assumptions. Abrasive bits energy and thermal sandblaster efficiency are estimated by mass loss value. The article states comparatively high performance and potential of pressure thermal sandblaster derived from received results.

*Keywords:* ejector thermal sandblaster, pressure thermal sandblaster, abrasive material, gas generator, mass loss, thermal sandblaster efficiency.

**Chernov V.A.**, Ph.D, Senior Researcher at Dmitrov Branch of Bauman Moscow State Technical University.

Sukhov A.V., Dr. Sci., (Eng.), Professor of Bauman Moscow State Technical University.

Fedotova K.V., Postgraduate Student, Engineer of Baranov Central Institute of Aviation Motor Development. e-mail: ksu\_nomber@mail.ru