

IM Tests on Vulcano Guided ammunitions

Vulcano is a new generation of guided and unguided ammunition in three different calibres: 76mm, 127mm and 155mm. A new generation of energetic materials and solutions to achieve the best IM signatures and following reduction of the risks associated to the typical IM threat were used for the design of Vulcano ammunitions.

The article show the test setup and the relate IM signatures of Vulcano 127 and 155mm guided ammunition, with considerations regarding the results interpretation and their use for transport homologation.

Considering that Vulcano qualification has been a Joint program between Italian and German MoDs the tests were performed in Italy and Germany proving ground following a shared qualification plan.

Bearing in mind the different operational use and customer (Navy for Vulcano 127 GLR and Army for Vulcano 155 GLR) and consequent different threat analysis the tests were done in slightly different way, some tests performed in 155mm caliber were not repeated in the 127mm configuration.