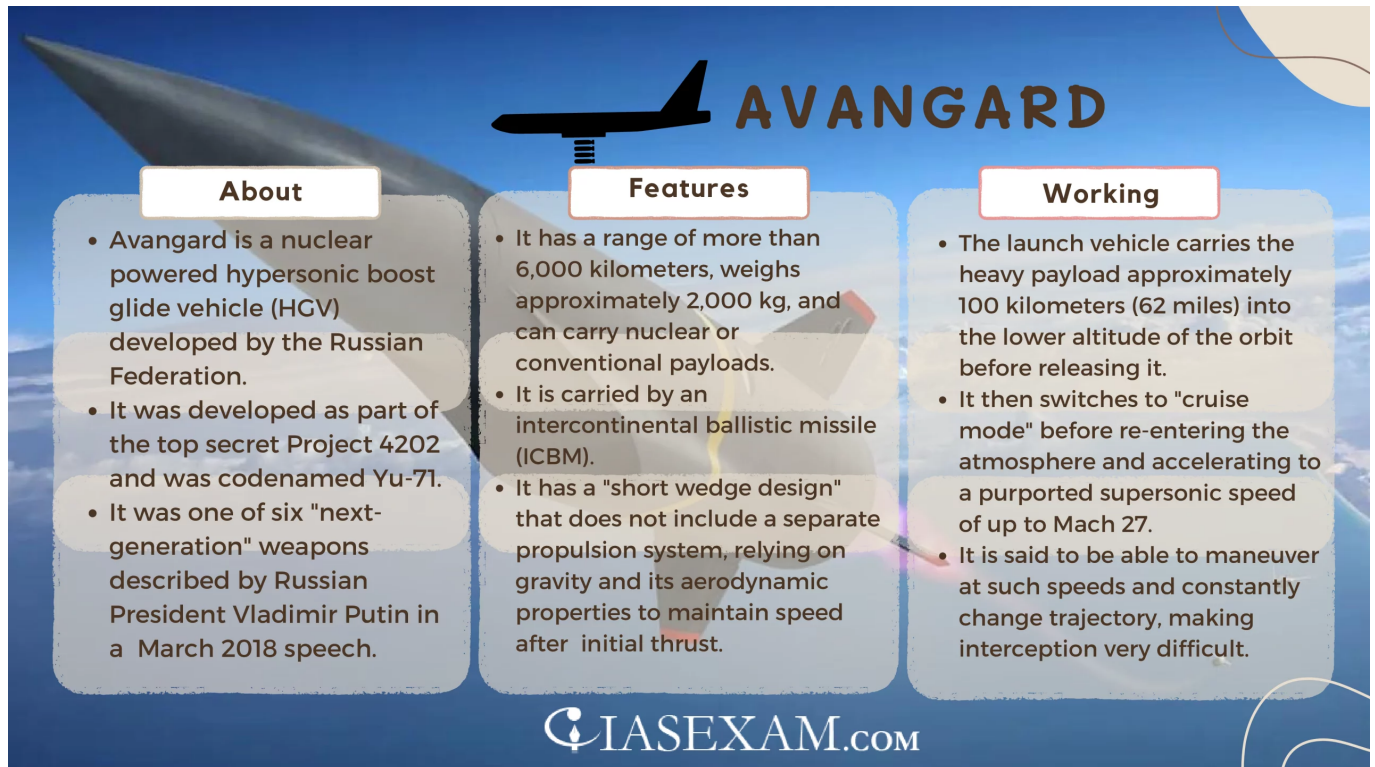


Avangard

written by iasexam.com | 18/11/2023



The infographic features a background image of the Avangard missile in flight against a blue sky. At the top center, a silhouette of the missile is shown with the word 'AVANGARD' in large, bold, brown capital letters to its right. Below this, three light blue rounded rectangular boxes are arranged horizontally, each containing a title and a list of bullet points. The first box is titled 'About', the second 'Features', and the third 'Working'. At the bottom center, the logo for 'IASEXAM.COM' is displayed, featuring a stylized 'i' icon followed by the text 'IASEXAM.COM'.

AVANGARD

About

- Avangard is a nuclear powered hypersonic boost glide vehicle (HGV) developed by the Russian Federation.
- It was developed as part of the top secret Project 4202 and was codenamed Yu-71.
- It was one of six "next-generation" weapons described by Russian President Vladimir Putin in a March 2018 speech.

Features

- It has a range of more than 6,000 kilometers, weighs approximately 2,000 kg, and can carry nuclear or conventional payloads.
- It is carried by an intercontinental ballistic missile (ICBM).
- It has a "short wedge design" that does not include a separate propulsion system, relying on gravity and its aerodynamic properties to maintain speed after initial thrust.

Working

- The launch vehicle carries the heavy payload approximately 100 kilometers (62 miles) into the lower altitude of the orbit before releasing it.
- It then switches to "cruise mode" before re-entering the atmosphere and accelerating to a purported supersonic speed of up to Mach 27.
- It is said to be able to maneuver at such speeds and constantly change trajectory, making interception very difficult.

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