



Review of Avangard

Rajesh G

Technical Trainee - Wings of Aero

Introduction:

This article is about Avangard. It is developed by Russia.

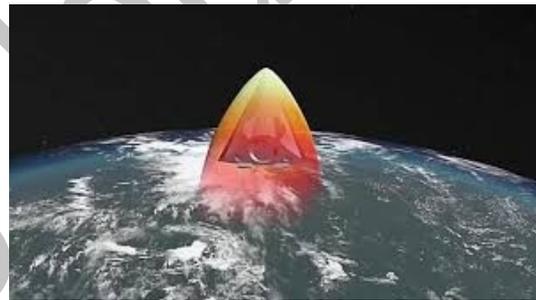
Avangard:

It is a hypersonic glide vehicle. The hypersonic intercontinental could strike like a meteorite and was capable of travelling 20 times the speed of sound. It's like a fireball guided to its target. It was launched from the Dombrovsky missile base in the Ural Mountains and hit a target at the Kura missile test range. It is designed using advanced composite materials so that it can withstand and operate in temperatures up to 2000 degrees Celsius which is attained when an object flies through the atmosphere at hypersonic speeds.

It combines the speed of ballistic missiles and manoeuvrability of cruise missile in a single platform making it a deadly weapon.

The current crop of ballistic missile defence system can calculate the trajectory of incoming missile

since they follow a predefined parabolic path then they fire the interceptor missile to neutralize the hostile missile in the air but with Avangard is not possible, also it must be noted that there is no current ballistic missile defence system are fool proof and have failed even in controlled test environments.



Credits: BBC

For defence against cruise missiles short range anti-missile defence system like RIM-7 Sea Sparrow, Sea Captor etc. and close in weapon system like Phalanx is used. Neither of these categories of weapon is dependable when the incoming missile is supersonic or manoeuvring in the air. All these aspects it can be safely said that Avangard will be virtually unstoppable



Conclusion:

It has actually reaches a top speed of Mach 27. This makes it the fastest hypersonic aircraft in the world.