

Meghna R. D

15J19AEO13

Introduction to composite material.

Jyphoom
fighter
jet

Materials
used
and
their
composition

Eurofighter
Typhoon
Specifications.

Max Speed

Mach 2.0

Thrust

90KN.

Length

15.96 m

Max Altitude

Above 55,000 ft

10.95 m



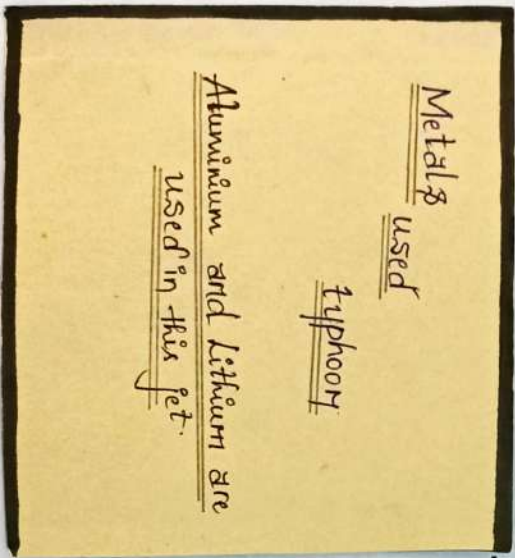
- Material
- Carbon Fibre Composite
 - Glas Reinforced Plastic
 - Aluminum Alloy
 - Aluminum Casting
 - Titanium



Glass

Reinforced

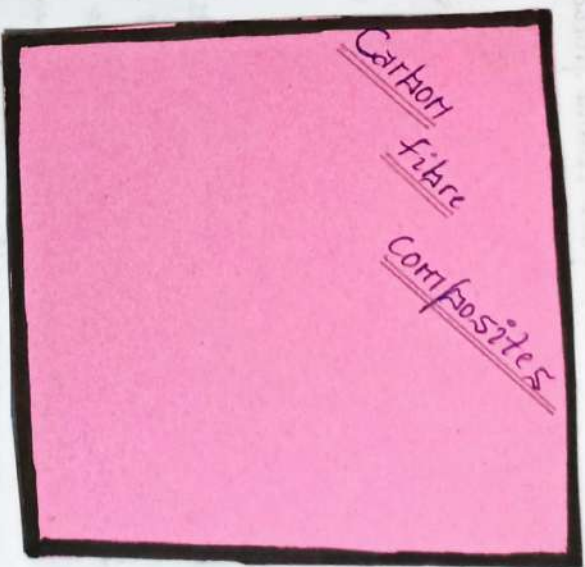
Plastic &



Metals
used

typhoo

Aluminium and lithium are
used in this jet.



Carbon
fibre

composites



10/01

Wing
Zuliyah



Properties

- 1) Low density
- 2) High strength
- 3) High strength to weight ratio
- 4) Durability
- 5) Corrosion resistant

Properties

- 1) High strength to weight ratio
- 2) Excellent durability
- 3) Light in weight
- 4) Electrically non-conductive
- 5) Radar, radio wave transparent
- 6) Non-catalytic
- 7) No maintenance required
- 8) Good resistance to a wide range of chemicals
- 9) Long service life
- 10) Wide operating temperature range.

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24/11/21



Properties

- 1) Carbon fibre is high strength
- 2) It is low weight
- 3) It is efficient
- 4) High stiffness
- 5) It is conductive to electricity
- 6) It is corrosion resistant
- 7) Carbon fibre is versatile
- 8) Carbon fibre is very rigid.
- 9) Carbon fibre is chemically stable
- 10) Low co-efficient of thermal expansion