

Re: How Rockets Differ From Jets

Source: <http://sci.tech--archive.net/Archive/sci.space.shuttle/2005-10/msg00469.html>

- *From:* "tomcat" <jlavine@xxxxxxxxxxxxxx>
 - *Date:* 25 Oct 2005 15:36:46 -0700
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Fred J. McCall wrote:

- > Strength per weight is a lousy measure of
- > your vehicle being 'stronger' unless you're looking at using something
- > close to comparable weights as you would steel.

Strength per weight is simply a formula. You can see it as 600 times lighter than steel on an equal strength basis, or as being 600 times stronger than steel on an equal weight basis.

By comparison, Kevlar is 5 times stronger than steel on an equal weight basis. Nanotube fabric can take more heat than Kevlar as well.

Laminate nanotube fabric with graphite epoxy and an almost 'magical' hull material is born. This laminated fabric could be used throughout the spaceplane to strengthen and lighten the spaceplane beyond any other material known.

tomcat

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- *Follow-Ups:*
 - ◆ ***Re: How Rockets Differ From Jets***
 - ◇ *From:* Fred J . McCall
 - ◆ ***Re: How Rockets Differ From Jets***
 - ◇ *From:* Brad Guth
- *References:*
 - ◆ ***Re: How Rockets Differ From Jets***
 - ◇ *From:* tomcat
 - ◆ ***Re: How Rockets Differ From Jets***
 - ◇ *From:* Glenn Shaw
 - ◆ ***Re: How Rockets Differ From Jets***
 - ◇ *From:* tomcat
 - ◆ ***Re: How Rockets Differ From Jets***

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◇ *From:* Fred J . McCall

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◇ *From:* Fred J . McCall

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