

Re: How Rockets Differ From Jets

Source: <http://sci.tech--archive.net/Archive/sci.space.shuttle/2005-10/msg00573.html>

- *From:* "Brad Guth" <ieisbradguth@xxxxxxxx>
 - *Date:* 30 Oct 2005 12:44:43 -0800
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tomcat,

I have some tile attachment ideas that'll remain reasonably flexible, somewhat Fish-Scale like applications.

>While 'thermal conductivity' is great for moving heat from
>the leading edges and forming the hull into a heatsink, it
>is bad for stopping heat flow into the ship itself.

But that's actually a perfect good thing about CNT, as providing the thermal heatsink should help to transfer/redistribute the thermal energy rather than allowing a horrific buildup at any one point.

>Best then, for the outer hull, would be a layer of basalt fabric,
>followed by several layers of CNT/basalt composite, finished off by a
>layer of CNT. Then, on top of that, Corelle/silica tile composite
>ceramic clamped and cemented to the skin.

I totally agree with this matrix approach, and don't worry about tile breakage if using my fish-scale method of application.

>The binder should, in all cases, be graphite epoxy because it is stiff
>and can take the heat.

Isn't there such a thing as being too stiff?

How much heat can graphite and/or boron epoxy withstand?

Here's a little more info coming our way, at least I'm hoping others will share and share alike without going into their usual need-to-know and/or taboo/nondisclosure mode. Just as well if you can provide some SME/SRB exhaust velocity and burn-time info would help us village idiots to understand a bit more of what's reasonably SME/SRB obtainable.

GRAVITY AND THE PHOTON

http://groups.google.com/group/sci.physics/browse_frm/thread/b5e032911e7b1aea/8ff196f1c9b35f0f?lnk=st&q=brad+

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Kurt Vonnegut would have to agree; WAR is WAR, thus "in war there are no rules" – In fact, war has been the very reason of having to deal with the likes of others that haven't been playing by whatever rules, such as GW Bush.

Life upon Venus, a township w/Bridge & ET/UFO Park-n-Ride Tarmac:
<http://guthvenus.tripod.com/gv-town.htm>

Re: How Rockets Differ From Jets

The Russian/China LSE–CM/ISS (Lunar Space Elevator)

<http://guthvenus.tripod.com/lunar-space-elevator.htm>

Venus ETs, plus the updated sub–topics; Brad Guth / GASA–IEIS

<http://guthvenus.tripod.com/gv-topics.htm>

• **References:**

- ◆ ***Re: How Rockets Differ From Jets***
 - ◇ *From:* tomcat
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 - ◇ *From:* Fred J . McCall
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 - ◆ ***Re: How Rockets Differ From Jets***
 - ◇ *From:* tomcat
 - ◆ ***Re: How Rockets Differ From Jets***
 - ◇ *From:* George Evans
 - ◆ ***Re: How Rockets Differ From Jets***
 - ◇ *From:* Brad Guth
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