

Pick Tojak

ACMA 4000

SN 1912296

Some other benefits of using carbon fibre are that it is corrosion resistant, x-ray transparent so it can be inspected for imperfections and have a low thermal expansion coefficient keeping the ~~dimensional~~ dimensional tolerances tight.

Steel is used when the consumer is the public and you want to squeeze out as much profit from selling the car. ~~a~~ ^{have} steels ~~are~~ the best price to strength ratio. Therefore they commonly used in products where price matters. ~~cost~~

Steels can be alloyed to give it ~~the~~ different properties and different grades of steel ~~used to~~ ~~used~~ give available when the application of the product is different.

d) Welding such as TIG welding introduces a lot of heat in the welded area changing the properties in a uncontrollable manner. The base metal can warp during welding making the joint around the weld dimensionally inaccurate.

Residual stress is common & with the welding and can make some welds weak due to ~~being~~
~~spontaneous contraction~~ outside contraction of hot zones in the weld.

Brazing is used because it doesn't affect the base metal because the filler metal has a lower melting point than the base metal. A important aspect of keeping the temperature low is that it keeps the base metal dimensionally accurate. ~~also~~ ~~structure~~ ~~also~~ ~~also~~ Brazing is much more difficult than try welding and that's why is ~~more~~ only used when you need to keep the base metal unaffected.