

Understanding Graphene Part 2: Why graphene is important.

Graphene is important because it combines so many superlative properties in one material. If Graphene were a person it would be a superhero.

Graphene is:

[200 times stronger than steel](#)

[100 times more tear resistant than steel](#)

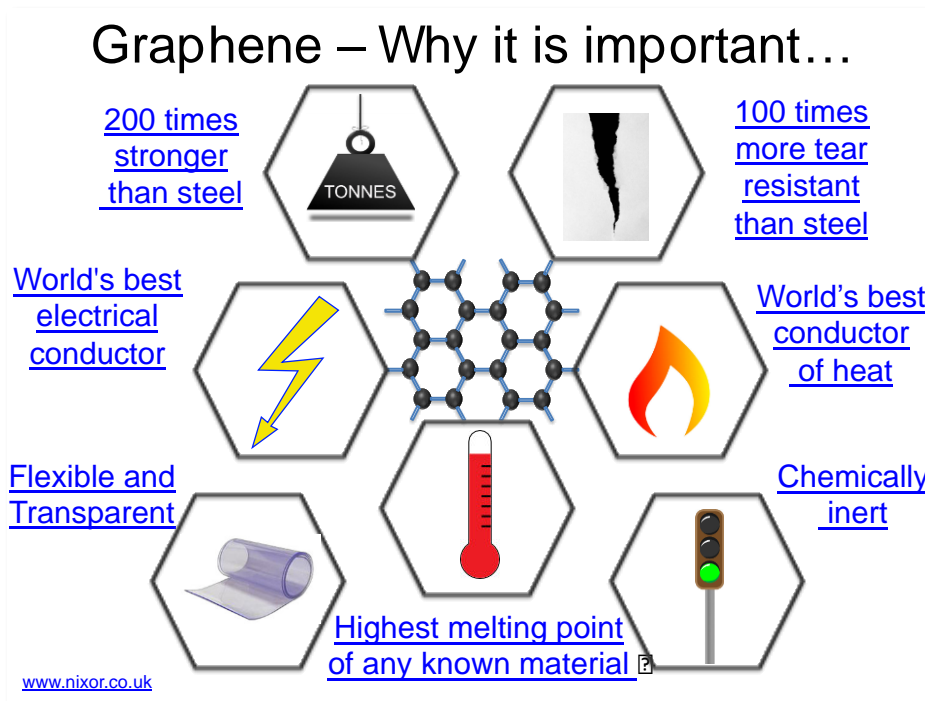
[World's best electrical conductor](#) (although it is not a superconductor)

[World's best conductor of heat](#)

[Flexible and transparent](#)

[The highest melting point material known](#) (4500° C in the absence of oxygen)

[Chemically Inert](#) (It needs extreme conditions to make it react with other materials)



This unique combination of properties will keep graphene at the centre of research and application of technology for years to come.

At the time of writing in 2018 there are over twenty five thousand research papers on graphene published each year.

Graphene is the stuff our future will be made of.