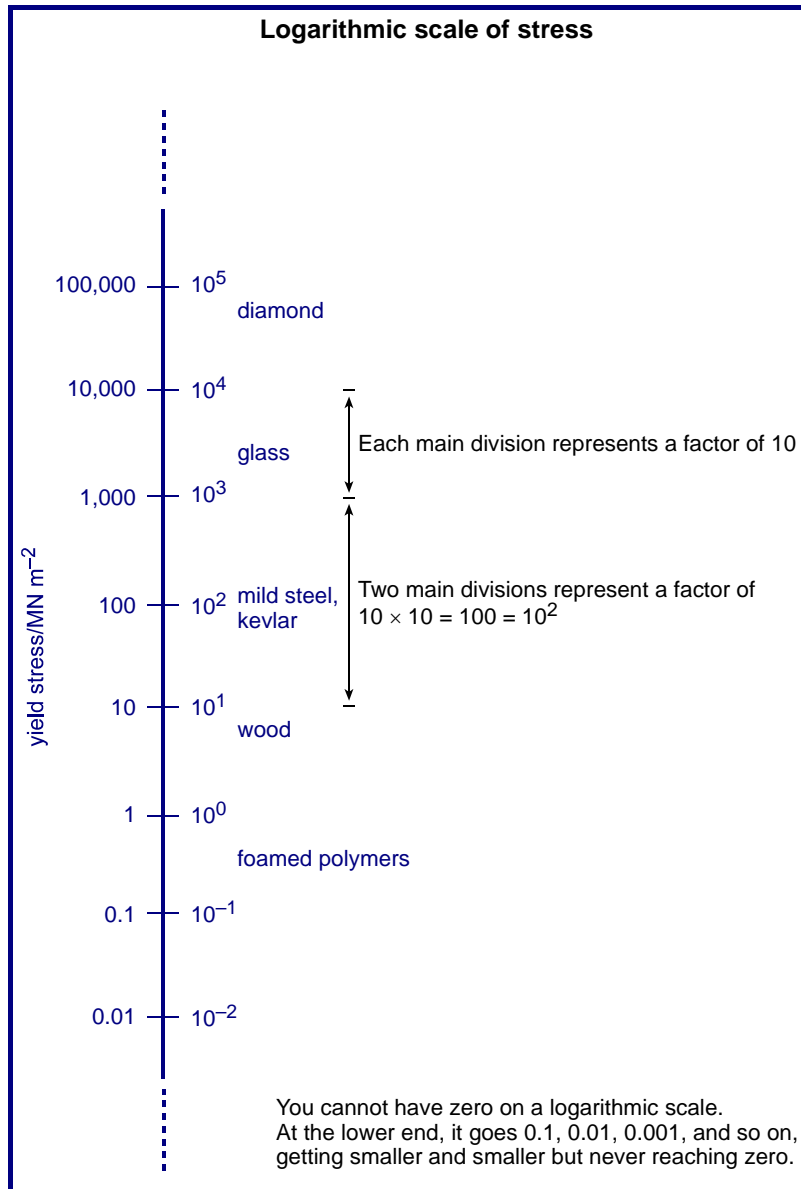


## TAP 227-1: Strengths of some materials

A logarithmic scale shows how the strength of materials ranges over several orders of magnitude.



## **Practical Advice**

This provides an opportunity to develop ideas about powers of ten and logarithmic plots, through the work on strength of materials.

These points may be valuable to mention when discussing this scale:

The strength of materials varies over several orders of magnitude. It is easiest to show this on a logarithmic scale.

You cannot have zero on a logarithmic scale. At the lower end it goes 0.1, 0.01, 0.001, etc, getting smaller and smaller but never reaching zero.

## **Alternative Approaches**

The page could be printed out for students to add to their notes for revision.

## **External References**

This activity is taken from Advancing Physics Chapter 4, Display material 400