ASTROLYMPICS

PRESSURE

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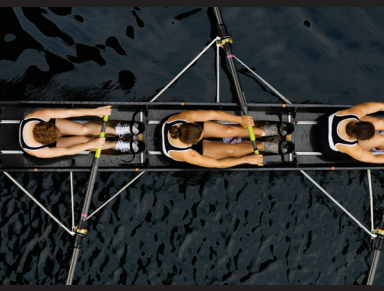
Definition: force over a particular area

Units: many different units used depending on field of science: pound-force per square inch (psi), millibars, etc. Below we use Pascals (Newton/meter^2) which is about 0.000145 pounds per square inch

OLYMPIC EXAMPLE

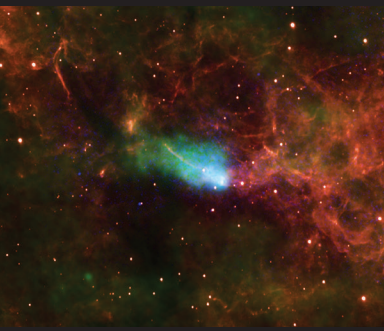
Pressure on an Olympic contestant to perform well: intense!



COSMIC EXAMPLE

Central pressure of a neutron star: 10,000,000,000,000,000,000,000,000,000,000,000 or 10 decillion or 10×10^{33} Pa

Within the blue-green cloud is a neutron star, an object so compact and dense that the pressure in its center is 10×10^{33} Pa, far greater than anything found on Earth.



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