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WS_2
Tungsten Disulfide

Tungsten Disulfide (WS_2) is the first material which was found to form inorganic nanotubes, in 1992. This ability is related to the layered structure of WS2.

WS_2 nanotubes have been investigated as reinforcing agents to improve the mechanical properties of polymeric nanocomposites. Also, this material is a component of certain catalysts used for hydrodesulfurization and hydrodenitrification.

Typical Physical Properties	
Molecular formula	WS_2
Appearance	blue-gray
Crystal Structure	Molybdenite
Density	7.5 g/cm3
Molar Mass	247.98 g/mol
Melting point	1,250 °C
Solubility in water	slightly soluble