

handbook of nitride semiconductors pdf

In chemistry, a nitride is a compound of nitrogen where nitrogen has a formal oxidation state of -3 . Nitrides are a large class of compounds with a wide range of properties and applications. The nitride ion, N^{3-} , is never encountered in protic solution because it is so basic that it would be protonated immediately. Its ionic radius is estimated to be 140 pm.

Nitride - Wikipedia

Boron nitride is a heat and chemically resistant refractory compound of boron and nitrogen with the chemical formula BN. It exists in various crystalline forms that are isoelectronic to a similarly structured carbon lattice. The hexagonal form corresponding to graphite is the most stable and soft among BN polymorphs, and is therefore used as a lubricant and an additive to cosmetic products.

Boron nitride - Wikipedia

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Cada uma destas camadas possuem um número máximo de elétrons. Assim, as camadas acima possuem, respectivamente , , , , elétrons. A camada de valência necessita, na maior parte dos átomos, de elétrons para que seja estável. Essa é a teoria do octeto.. Quando não há estabilidade, os átomos tendem a fazer ligações químicas com elementos que possam proporcionar os elétrons faltantes.

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