



titanium dioxide nanopowder

“TiO₂”

IRAN Unique Tech



PRODUCT IDENTIFICATION

IDENTIFICATION LABEL:

trade name : **titanium dioxide nanopowder.**

chemical name: titania (rutile & anatase)

chemical formula: TiO_2 .

This powder is produced using sonochemical process.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance and color: white powder.

Average particle size is 20-70 nanometers.

purity > 98%

density is 4.26 g/cm^3 .

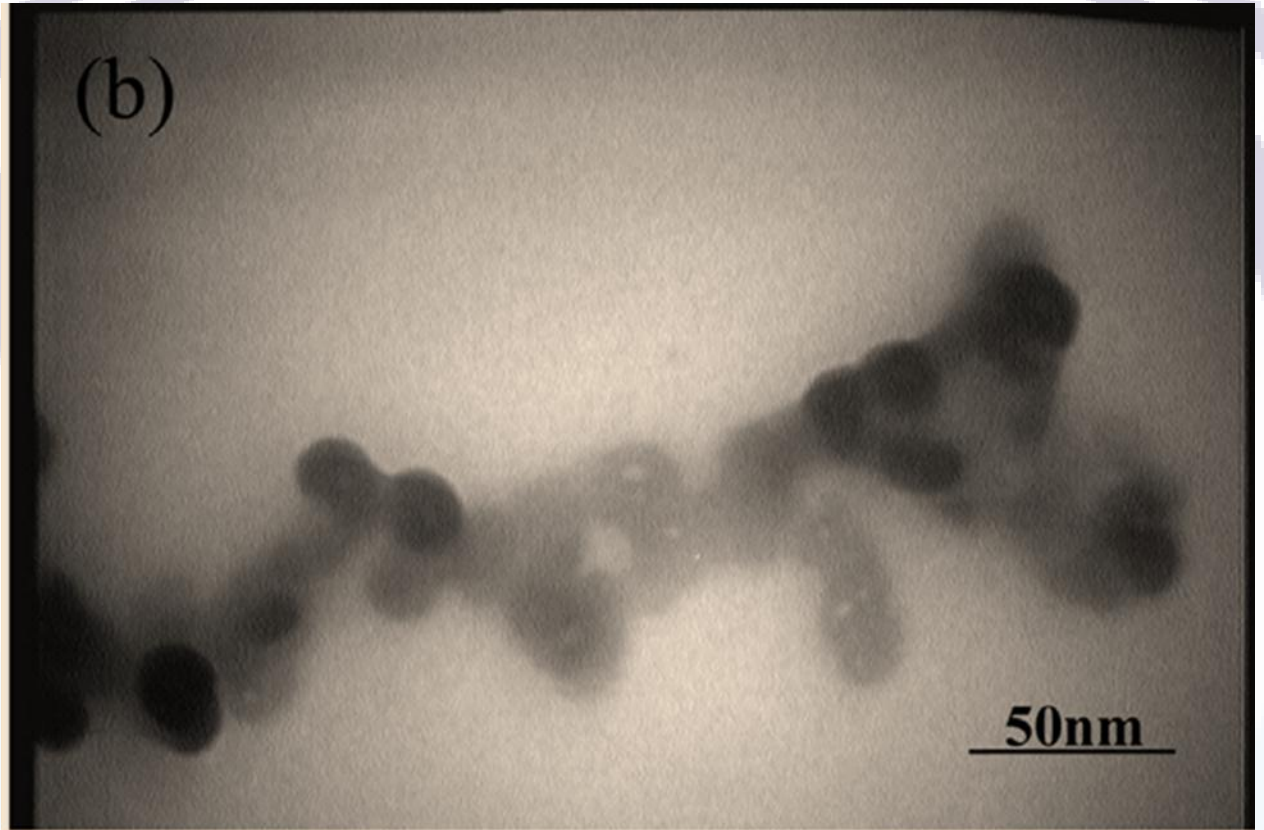
BET specific surface area $\sim 40 \text{ m}^2/\text{g}$.

Melting point $1830\text{-}1850^\circ\text{C}$.

Boiling point $2500\text{-}3000^\circ\text{C}$.

APPLICATION

TiO_2 has extensive applications as photocatalysts , gas sensors , self cleaning surfaces , water and air purification components and pigments.



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