

PRODUCT IDENTIFICATION

IDENTIFICATION LABEL:

trade name : **titanium dioxide nanopowder.**

chemical name: **titania (rutile)**

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/cm³.

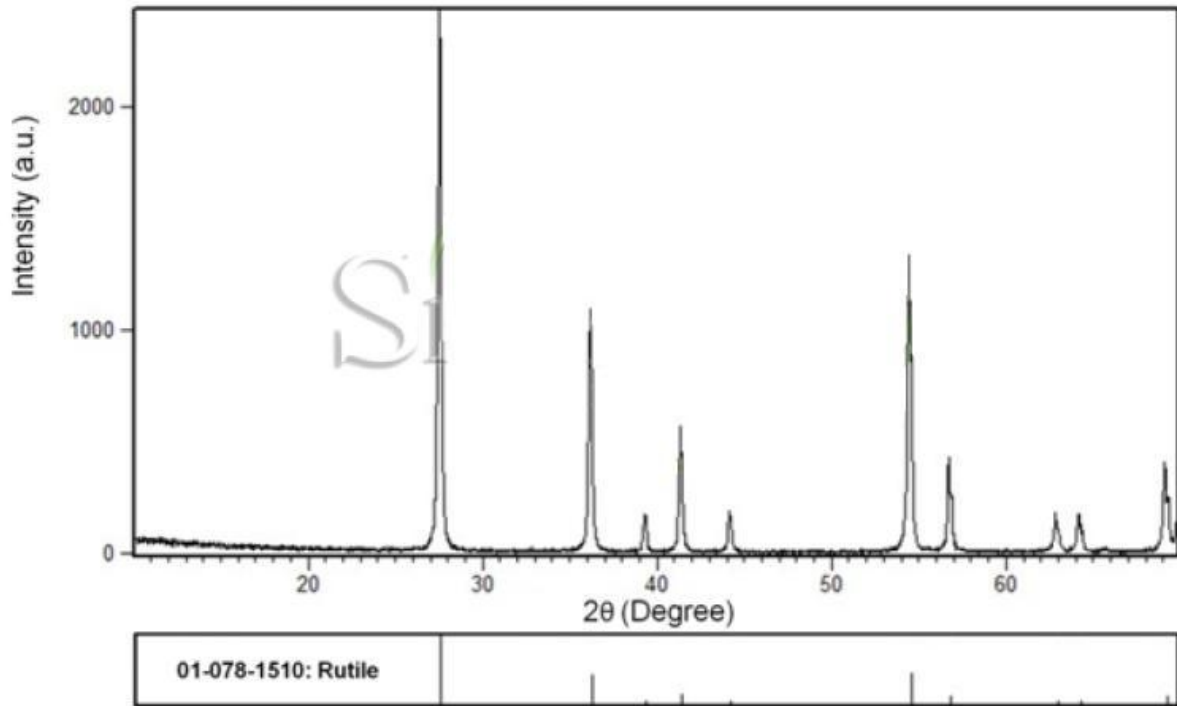
BET specific surface area ~40 m²/g .

Melting point 1830-1850°C.

Boiling point 2500-3000°C.

APPLICATION

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



شکل ۵- طیف XRD نانوذرات روتایل.

