

Platinum nanoparticles PNP1711

Description :

Platinum nanoparticles are usually in the form of a suspension or colloid of nanoparticles of platinum in a fluid, usually water. platinum NPs (PtNPs) have led to a new revolution in the field of nanotechnology including the chemical industry, automotive sector, and biomedical applications, and therapeutic span. The chemical and physical properties of platinum nanoparticles (NP) make them applicable for a wide variety of research applications. Extensive experimentation has been done to create new species of platinum NPs, and study their properties.

Characterization	
CAS	7440-57-5
Stock No.	PNP1711
Molecular formula	Pt
Molecular weight (g/mol)	۱۹۵/۰۸
Form	water base colloid
Color	brownish black
Concentration	0.1 mg/mL
Functional group	Citrate
Morphology	Spherical
Crystal structure	FCC
Size range (nm)	30-50
Total impurity (%)	N/A

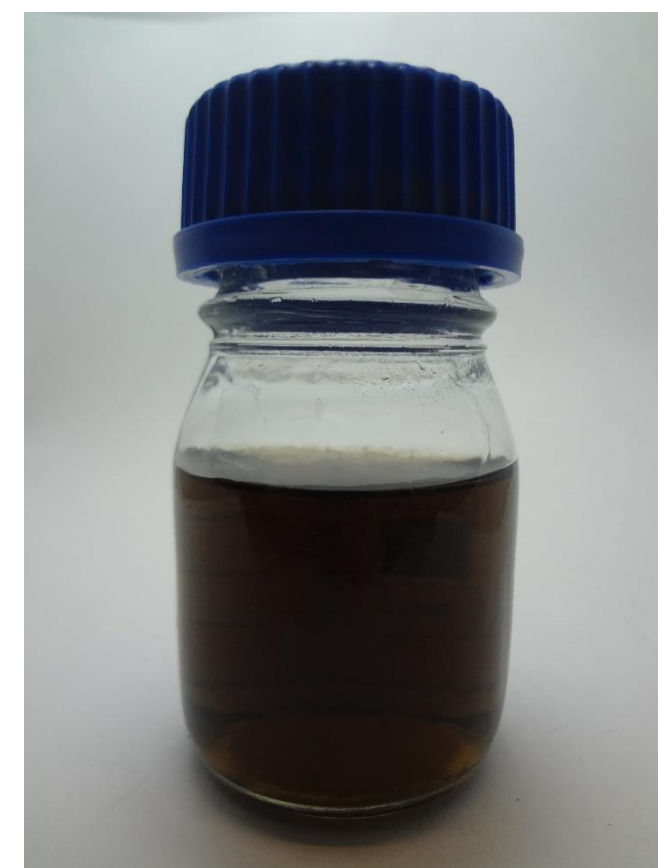


Image of platinum nanocolloid
(PNP1711)

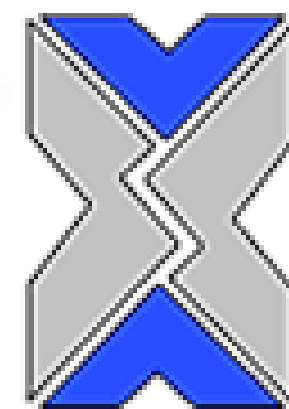
Note: product specifications are subject to amendment and may change over time.

Applications (but not limited to the following):

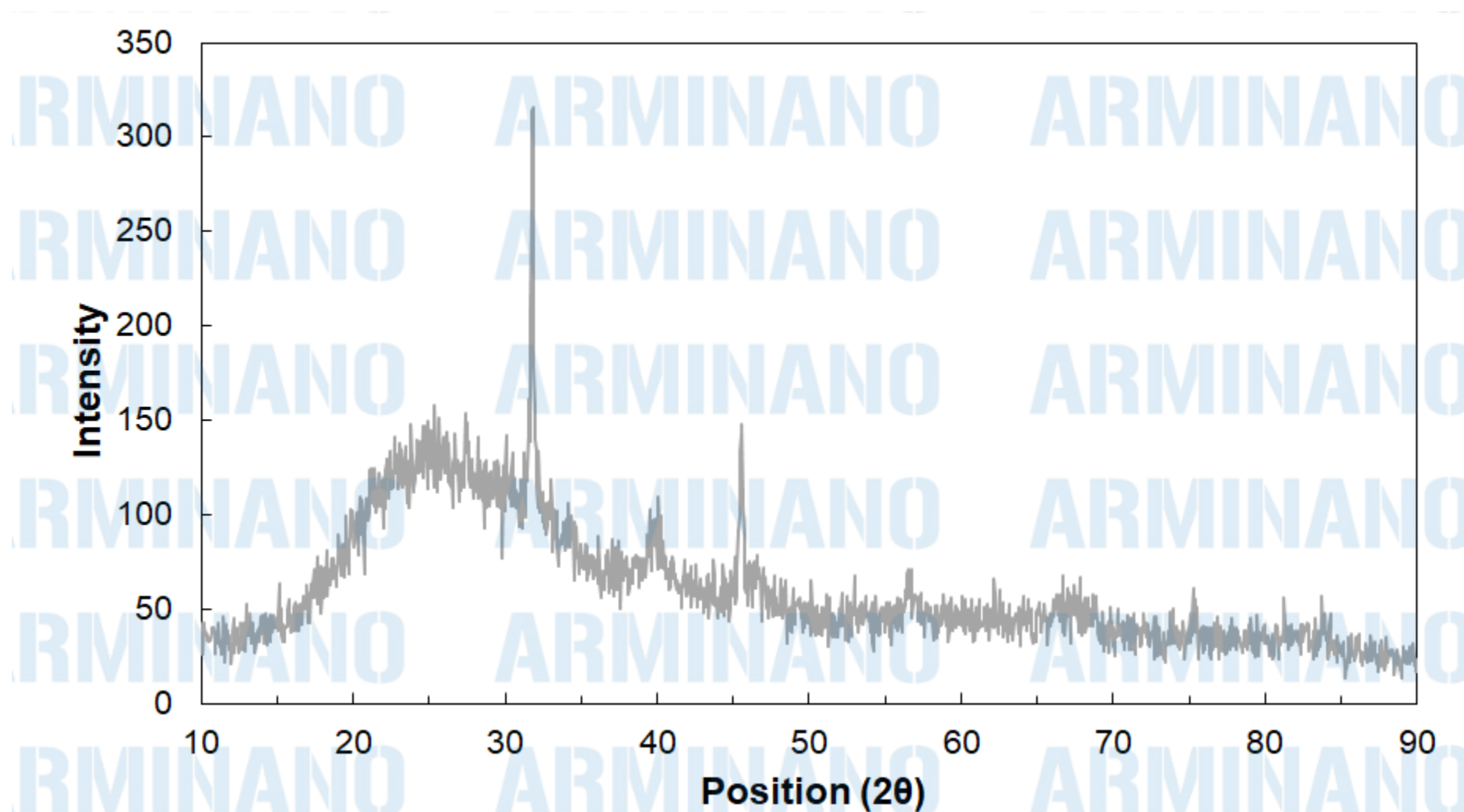
Platinum NP applications include electronics, optics, catalysts, and enzyme immobilization. They are also used in numerous biomedical fields including diagnostics with different agents for imaging, medical implants, drug delivery, and photothermal therapy. They are used in green technologies, such as highly polluting aromatic compound, solar energy harvesting, and water treatment, and to maintain a clean environmental.

Safety:

Always use protective gloves and safety glasses.
Wash with soap and water after exposure.
Refer to MSDS prior to handling this material.



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XRD pattern of PNP1711