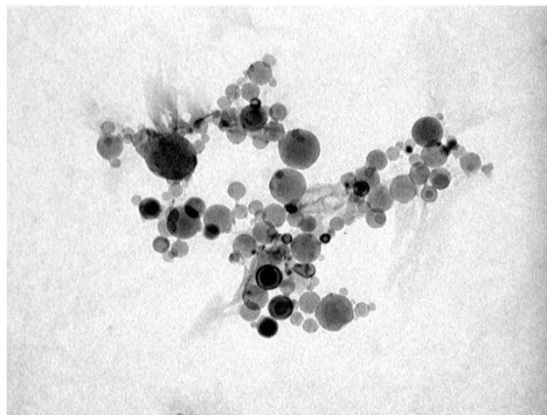


Aluminum Nanopowder

www.novacentrix.com

NovaCentrix manufactures spherical aluminum nanopowder with an average particle size of 80 nm and a specific surface area of 25 m²/gm. The powder has 75% active aluminum content by mass, and a 2-3 nm oxide passivation layer. The high specific surface area leads to high reaction rates, making it suitable for systems such as primers, propellants and explosives. Many aluminum-based energetic materials have environmentally benign reaction products, unlike the incumbent products in those areas. The powder is manufactured in Austin, Texas, USA.

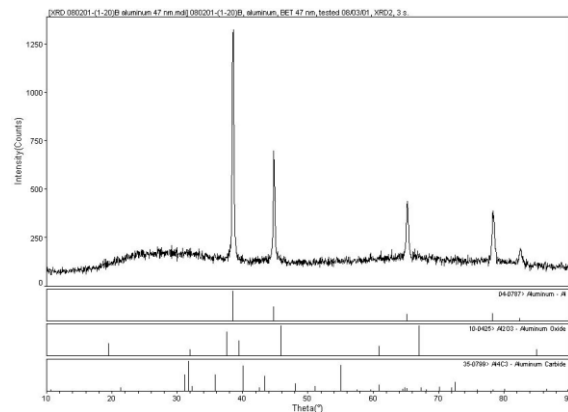
Characterization



200 nm

Tight Size Distribution

Transmission electron microscope (TEM) image of aluminum with 80 nm average particle size.



Material Structure/Crystallinity

X-ray diffraction data (right) for aluminum showing the material to be highly crystalline. A very thin oxide coating provided to passivate the aluminum nanoparticles is not visible in the diffraction data.

| | |
|----------------------------|---|
| Sample Applications | <ul style="list-style-type: none"> - Enhanced combustion propellants - Enhanced explosives - Lead-free primers |
| Availability | <ul style="list-style-type: none"> - 50 – 150 gram evaluation quantities priced at \$10/gram - Priced as low as \$1,350/kg at volumes above 100 kg |
| Shipping | <ul style="list-style-type: none"> - Packed under argon - Shipped in oxygen barrier bags (up to 200 gm per bag) - Shipped in 10 gallon pressure vessel shippers (7-8 kg per shipper) |

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Contact us today to learn more.

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