



Product Spotlight: Nylatron™ Cast Nylon 6

Cast nylon 6 has been a game-changer since its commercialization in the 1960s. In addition to offering a strong, versatile alternative to traditional metals, the castability of this second-generation nylon unlocked a new industry for large parts that Mitsubishi Chemical Group (MCG) still serves today with its **Nylatron™ cast nylon 6** range of high-performance materials.

Strength, Size, and Performance You Can Count On

Nylatron™ cast nylon 6 is the industry standard for use in bearing and wear applications, and an ideal replacement for materials ranging from bronze to nylon 66, acetal and even ultra-high molecular weight (UHMW) polyethylene.

Unlike these materials, Nylatron™ cast nylon 6 offers:

- **Higher molecular weight and crystallinity**—for improved strength and better wear and fatigue resistance
- **Greater range of part sizes**—from under 1 lb. to over 1,000 lbs., in rods, tubes, and near-net shapes
- **Superior fatigue resistance**—for long-lasting durability in demanding applications like rollers and gears




Custom Casting Goes Big


The introduction of cast nylon 6 opened the door to cost-effective production of large shapes, offering a smart alternative between machining standard shapes and investing in injection molds. Today, Nylatron™ cast nylon 6 helps reduce costs for larger production runs. It can be custom molded into disks over six feet in diameter and gear rings up to 96 inches.

Outperforming Metal


Compared to metal parts, Nylatron™ cast nylon 6 parts deliver:




Weight Savings
Lighter than metal, reducing stress on equipment



Low Friction
Reducing or eliminating the need for greasing



Longer Part Life
Resisting wear in tough, abrasive conditions



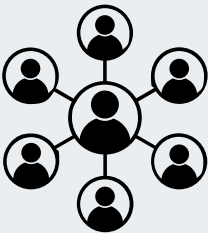
Quieter Operation
Absorbing vibration for smoother performance

Heavy-duty Applications

With its unmatched durability, Nylatron™ cast nylon 6 is trusted in industries where high loads, abrasive conditions, and large part sizes are the norm.

- ✓ **Heavy equipment**—Construction, agriculture, and mining machinery
- ✓ **Food processing**—When size and operating conditions require a tough, reliable solution

Parts	Equipment
Wear pads	Mobile cranes, agricultural equipment with telescoping axles, telehandlers, and rollback car carriers
Sheaves	Mobile, straddle, and marine cranes, fire trucks with extended ladders, stage rigging, and boat lifts
Outrigger feet	Mobile cranes
Trackplates	Subsea trenchers, marsh buggies, and soft soil harvesters/excavators
Rollers	Scissor lifts, manlifts, mobile cranes, agricultural equipment, and food processing and packaging machinery
Bushings	Agricultural equipment, telehandlers, and excavators
Gears	Food processing and packaging machinery



Need guidance?

Our team can help you determine which Nylatron™ grade is right for your customers. [Contact us.](#)

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