

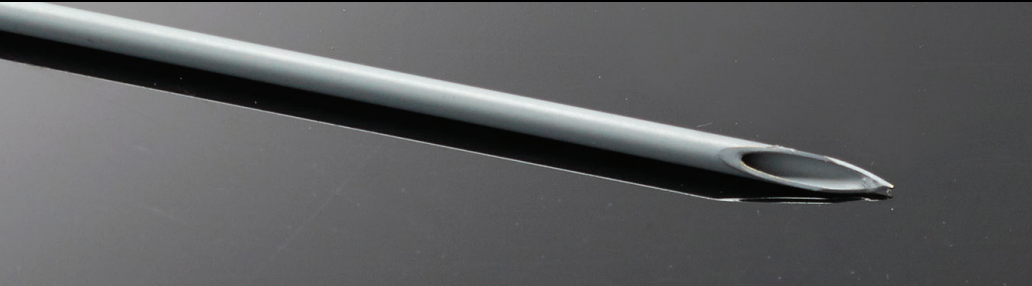
ROTHGREAVES®

Medical
Grade PTFE
Coatings



Supporting Medical Device Manufacturing Around the World

RothGreaves DR PTFE Coatings



Polytetrafluoroethylene (PTFE) is a fluoropolymer designed for use in applications that require high temperature stability and durability in a non-stick finish, used as a release agent in thermal bonding and injection molding processes.



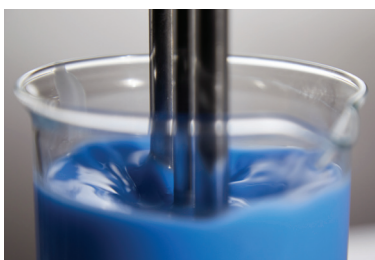


Polytetrafluoroethylene (PTFE) is a fluoropolymer designed for use in applications that require high temperature stability and durability in a non-stick finish, used as a release agent in thermal bonding and injection molding, reflow, and adhesive bonding processes.

RothGreaves has been a pioneer in the development and application of PTFE mold-release coatings suitable for use in the manufacturing of medical devices. Our DR formulations' superior durability and smooth finishes place them among the best and most reliable PTFE coatings available on the market today.



Raw powdered ingredients to make RothGreaves DR96 Green PTFE Coating.



Blending a solution of proprietary mixture for RothGreaves DR472 Blue PTFE Coating.



We perform durability testing on all color versions of our DR coatings.

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RothGreaves DR Coatings

RothGreaves DR PTFE formulations are so smooth you'll feel the difference. These lustrous, glass-like finishes can be applied to nearly any tooling that requires a high working temperature, easy release finish.

The cured finish is biocompatible and has passed USP Plastic Class VI testing and can withstand temperatures up to 600° Fahrenheit making it ideal for use in the manufacturing of medical devices and food contact products.

Characteristics of RothGreaves DR PTFE coatings include:

- capable of withstanding temperatures up to 600° Fahrenheit
- applies at a standard coating thickness of approximately 0.0003", with the exception of the DR-00, which applies at a standard thickness of approximately .0001"
- excellent adhesion to most metals including stainless, tool steel, titanium, aluminium, and Nitinol
- RothGreaves DR coatings are resistant to most solvents but some strong acids or bases may cause deterioration of the finish
- DR coatings can be *reapplied* to metal substrates after removal of residual coating. Mechanical removal methods that include polishing, grit blasting and scraping can be used to remove the finish. Chemical removal methods are hazardous and should be avoided
- provides a clean, flake free coating and true non-stick surface

NOTE: RothGreaves DR PTFE Finishes are not recommended for use in implantable medical devices.

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RothGreaves DR PTFE Coatings

Superior release finishes applied to tooling used in medical device manufacturing such as mandrels, hypotubes, core pins, tipping dies, etc.		
DR-95Z Grey	Avg thickness .0003" / side	DR95Z has increased flowability and is recommended for parts with complicated profiles, challenging contours, sharp edges, as well as for interior ID coatings
DR-96 Green	Avg thickness .0003" / side	DR96 is a color variant recommended in applications where a green finish is desirable
DR-97 Lt Grey	Avg thickness .0003" / side	DR97 is a variation with similar properties to DR95Z but provides increased durability on straight or slightly tapered parts
DR-472 Blue	Avg thickness .0003" / side	DR472 is a color variant offered for applications where a blue finish is desirable and which requires increased durability similar to DR97
DR-100 Black	Avg thickness .0003" / side	DR100 is a color variant offered for applications where a black finish is desirable
DR-00 Clear	Avg thickness .0001" / side	DR00 is a coating without any color pigmentation, giving the material a neutral, transparent finish. Maximum length of 24"

All RothGreaves DR PTFE formulas cure at 750° F.

Which DR Coating Do You Need?

RothGreaves proprietary DR PTFE finishes include DR-95Z, DR-96, DR-97, DR-472, DR-100, and DR-00. Each formulation provides similar release properties but differ in color to help provide quick part identification.

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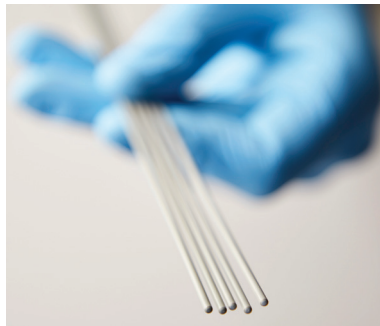
RothGreaves DR PTFE cured finish is biocompatible and has passed USP Plastic Class VI testing making it suitable for use in the manufacturing of medical devices and food contact products.

NOTE: These coatings are NOT recommended for the use in implantable medical devices.

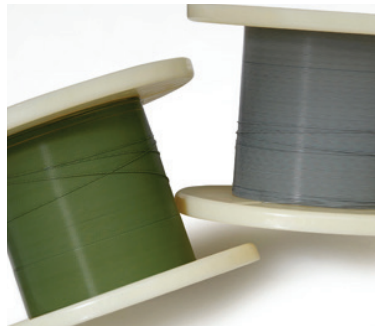
Orders for RothGreaves DR PTFE Coatings require no minimum or maximum quantity for standard parts with a coating length of 72" or less and minimum of 200 feet for reel-to-reel coating. Lead times are always competitive.

Call **1-952-404-2604** for a price quote and estimated delivery times.

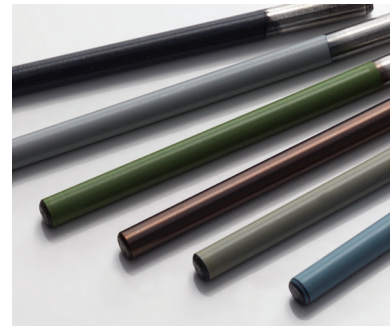
And if you decide to pick up your coatings order, check in at our shipping department for your order pickup.



Mandrels coated with DR-97 Light Grey.



RothGreaves has perfected the process of coating wire in a reel-to-reel application.



RothGreaves PTFE coatings are now available in six colors: black, light grey, green, clear, dark grey, and blue to help with identification.

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About Us



RothGreaves is a full-service, multi-discipline, engineering firm providing products and technical expertise to medical device manufacturers, pharmaceutical producers, and high-technology firms. We're dedicated to producing the industry's most reliable PTFE easy release finishes, the finest precision coil winders, and first-class custom applications.

And we're dedicated to YOU, our valued customers around the World.

To find out more about our products and services, and how we might be of service to you, please visit our website at **www.rothgreaves.com** or call us at **1-952-404-2604**. We'd love to hear from you!

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