The strongest, longest-lasting snow mould protection.

Instrata delivers unmatched performance that carries through into spring.

Instrata® is the only snow mould fungicide that combines three high-performing active ingredients in a convenient pre-mix. This powerful combination of contact and systemic fungicides has a track record of providing industry-leading control of both pink and grey snow mould. Whether the winter is long, temperate with high moisture, or variable with heavy freezing and thawing, Instrata gets the job done and even reduces disease pressure in the early spring.

- **Fludioxonil** (Group 12) is a protectant contact fungicide that inhibits fungal spore germination and stops mycelial growth. It's the same active ingredient found in Medallion® fungicide, which consistently achieved the highest rating for Microdochium patch control of any stand-alone product tested in the 2020 Chemical Control of Turfgrass Diseases Report.[1]
- **Chlorothalonil** (Group M5) is a multi-site contact fungicide that controls a broad spectrum of turf diseases, including pink and grey snow mould. It's an effective tool for strategic use in disease management programs to help manage the risk of fungicide resistance. Chlorothalonil is the same active ingredient found in Daconil® fungicide.
- **Propiconazole** (Group 3) is the same active ingredient used in Banner Maxx® fungicide. It is a systemic fungicide that enters through the surface stem or root system and inhibits sterol biosynthesis, preventing fungal cell growth.

[1]Paul Vincelli, Department of Plant Pathology, University of Kentucky; Bruce Clarke, Department of Plant Biology, Rutgers University; Gregg Munshaw, Department of Plant and Soil Sciences, University of Kentucky.

	Rate (mL/100 m^2)	Chlorothalonil (g/100 m^2)	Fludioxonil (g/100 m^2)	Propiconazole (g/100 m^2)
Fairways and tees	225 mL	90.5	3.63	14.25
Greens	300 mL	108.6	4.35	17.1

To learn more about Instrata, call our Customer Interaction Centre at 1-87-SYNGENTA (1-877-964-3682), visit Greencast.ca or follow @SyngentaTurfCA on Twitter.

WeatherStik technology

Instrata is formulated with trusted WeatherStik® technology to optimize performance. This innovative formulation ensures the fungicides bond onto the leaf wax layer, making them rainfast within one hour. Tight binding to the leaf ensures the fungicides won't be washed off by rainfall and will continue to provide long-lasting results throughout the winter months.

Silver Lakes Golf & Country Club, East Gwillimbury, ON, 2020

Marquette Golf Club, Marquette, MI, 2021
Photo courtesy of Paul Koch - University of Wisconsin.

Performance evaluations are based on internal trials, field observations and/or public information.
Data from multiple locations and years should be consulted whenever possible. Individual results may vary depending on local growing, soil, and weather conditions.

Optimal application timing

	Treatment	Rate	Application timing	Disease severity[2]	Turf quality[3]	Turf colour[4]	2" soil temperature
1	Non-treated control			87.5a	1.5c	111.8c	N/A
2	Instrata	9.3 fl oz/1000 ft²	10/1/20	83.8a	1.8c	109.5c	13.1°C (55.5°F)
3	Instrata	9.3 fl oz/1000 ft²	10/16/20	32.5b	4.5b	144.0b	9.2°C (48.6°F)
4	Instrata	9.3 fl oz/1000 ft²	10/30/20	5.0c	6.3a	174.8a	6.3°C (43.4°F)
5	Instrata	9.3 fl oz/1000 ft²	11/16/20	2.5c	6.5a	168.0a	3.5°C (38.4°F)
6	Instrata	9.3 fl oz/1000 ft²	12/1/20	0.0c	7.0a	182.5a	-0.2°C (31.6°F)
7	Instrata	9.3 fl oz/1000 ft²	12/10/20	0.0c	7.0a	182.8a	-0.1°C (31.8°F)
			LSD P=.05	10.82	0.86	22.71	

[2] Mean percent diseased area assessed on March 12, 2021. Means followed by the same letter are not statistically different.
[3] Quality was visually assessed where 1 = dead, 6 = acceptable, 9 = dark green.
[4] Color was assessed using a FieldScout® CM1000 Chlorophyll Meter from Spectrum Technologies, Inc.

Source: Research conducted by Kurt Hockemeyer and Paul Koch, Ph.D. Department of Plant Pathology, University of Wisconsin-Madison.

The letters refer to statistical differences between treatments. If the letters are the same, there are no statistical differences between treatments. If the letters are different, there are statistical differences between treatments.

Active ingredient	Formulation type	FRAC group	Case size	Case coverage	Nozzle selection
Chlorothalonil	Suspension	M5	2 x 7.1 L	0.47 – 0.63 ha (1.17 – 1.56 ac)	Syngenta XC 08 AI, XR
Fludioxonil	Suspension	12			
Propiconazole	Emulsifiable concentrate	3			

Instrata

syngenta®