

DIFLUBENZURON	GROUP	15	INSECTICIDE
LAMBDA-CYHALOTHRIN	GROUP	3A	INSECTICIDE

# PROZAP<sup>®</sup> PROTECTUS

## POUR-ON INSECTICIDE - IGR



BEEF CATTLE

## Triple Active Formula for Use on Beef Cattle and Calves

Prozap<sup>®</sup> Protectus Pour-On Insecticide—IGR is a triple active formula for use on beef cattle and calves that kills chewing and sucking lice, horn flies, stable flies, horse and deer flies. A unique combination of actives includes an insect growth regulator (IGR), adulticide, and a synergist that provide cattle relief from infestations and producers a reliable solution that helps minimize handling, time, and labor costs. The addition of the insect growth regulator, diflubenzuron, kills louse eggs before they hatch, providing season long control of lice in one application.

Contains 3% diflubenzuron, 2.5% piperonyl butoxide, and 0.5% lambda-cyhalothrin.

- Ready-To-Use as a Pour-On
- Kills chewing and sucking lice, horn flies, stable flies, horse and deer flies on beef cattle and calves
- Kills louse eggs before they hatch
- Season long control of lice

**0.5 gal. Size:** Treats 64 Cattle (1,000 lbs. per animal)

**2.5 gal. Size:** Treats 320 Cattle (1,000 lbs. per animal)



Product Number	Product	UPC	EPA Registration Number	Case Ct.
1896010*	Prozap Protectus Pour-On Insecticide—IGR 2.5 gal. (9.464 L)	045446028812	89459-127-47000	2
1898010	Prozap Protectus Pour-On Insecticide—IGR 0.5 gal. (1.892 L)	045446028829	89459-127-47000	4
380708	Prozap Pour-On Applicator Gun 30 mL Adjustable Dose	658261380708	N/A	10

\*One (1) Prozap Pour-On Applicator Gun is included per case of 2.5 gallon Prozap Protectus Pour-On Insecticide—IGR. It is a violation of Federal law to use this product in a manner inconsistent with its labeling.



# Syringing & Performance

When it comes to treating cattle for problematic insects, like lice and flies, choosing the right pour-on product is only half the battle. Compatibility of pour-on products with a reliable and easy-to-use syringe is key. Prozap Protectus Pour-On Insecticide – IGR comes with a 30 mL adjustable dose gun designed to accurately apply insect control to beef cattle and calves—no matter the season. Cold temperatures can impact how easy or difficult an insecticide can be syringed or dispensed which costs producers additional time spent on labor and increases chance of under dosing. Prozap Protectus Pour-On Insecticide – IGR was put to the test against the Market Leading Pour-On with IGR and included syringe in the same conditions, comparing performance in normal to extreme temperatures over time.

In temperature conditions ranging from 78 degrees F to -8.6 degrees F, Prozap Protectus Pour-On Insecticide – IGR out-performed the competition in time (seconds) to refill the syringe. At the two-hour mark, the Prozap 30 mL Pour-On Applicator Gun was able to refill Prozap Protectus Pour-On Insecticide – IGR seven times faster than the Market Leading Pour-On with IGR and included syringe. When evaluating the 24-hour period post exposure to temperatures down to -8.6 degrees F, Prozap Protectus Pour-On Insecticide – IGR continued to refill in under 9 seconds compared to the Market Leading Pour-On with IGR and included syringe refilling in 35 seconds.

To highlight the fact that choosing the right syringe to dispense product is critical, we also compared the Market Leading Pour-On with IGR with our Prozap 30 mL Pour-On Applicator Gun in the same conditions and the Prozap 30 mL gun continued to refill the liquid more rapidly than the Market Leading Pour-On with included syringe.

We also evaluated the amount of pressure it takes (ft./lb.) to squeeze the liquid, at specific time intervals (0, 2, 12 and 24 hours) when exposed to extreme temperatures. In this test, the Prozap Protectus Pour-On Insecticide – IGR and Prozap 30 mL Pour-On Applicator Gun was 13% easier to squeeze at 0 hours at 78 degrees F and 36% easier at the 24-hour time period at -8.3 degrees F than the Market Leading Pour-On with IGR and included syringe.

Choosing the right equipment combined with the right insect control product is critical to ensure the product is being applied at the correct dose, even when environmental factors are at play. As you prepare for your lice control treatment program this fall and winter, don't 'freeze' when making your selection—Prozap Protectus Pour-On Insecticide – IGR and Prozap 30 mL Pour-On Applicator Gun will get the job done no matter what mother nature throws at you.

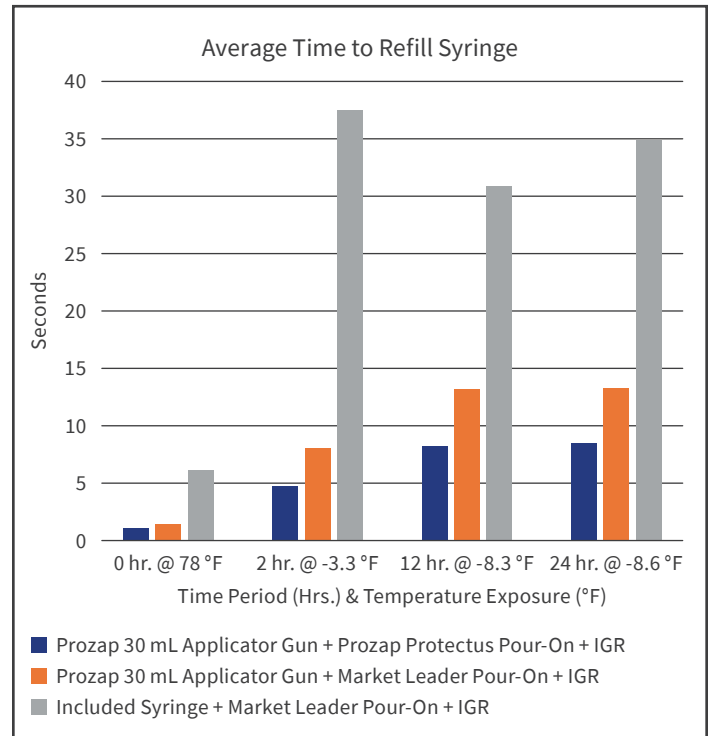


Chart 1 (Above): Average Time to Refill Syringe—Testing was conducted using Prozap Protectus Pour-On Insecticide – IGR with Prozap 30 mL Pour-On Applicator Gun, the Market Leading Pour-On with IGR with Prozap 30 mL Pour-On Applicator Gun, and the Market Leading Pour-On with IGR with included syringe at the 0, 2, 12, and 24-hour mark at multiple temperatures. The average ambient temperature of exposure to all three combinations is represented in the chart above.

