


Technology Comparison Chart



Specifications	 Insect Shield® for Pets	Frontline® Plus	Advantage II	K9 Advantix II	PetArmor	NexGard
Product Type	Insect-Repellent Apparel & Gear	Flea & Tick Topical	Flea & Tick Topical	Flea & Tick Topical	Flea & Tick Topical	Chewable
Active Ingredient(s)	Permethrin	Fipronil/(S)-Methoprene	Imidacloprid & Pyriproxyfen	Imidacloprid Permethrin & Pyriproxyfen	Fipronil	Afoxolaner
Application	N/A—Insect-repellent technology is bound to fabric fibers	Applied directly to skin	Applied directly to skin	Applied directly to skin	Applied directly to skin	Ingested
Active Ingredient Delivery Method	Built-in insect repellency on the apparel and gear, not on the skin	Active ingredient is spread over the animal's entire body, depositing into the oils on the skin.	Active ingredient is spread over the animal's entire body, depositing into the oils on the skin.	Active ingredient is spread over the animal's entire body, depositing into the oils on the skin.	Active ingredient is spread over the animal's entire body, depositing into the oils on the skin.	Active ingredient is digested and circulates into the bloodstream through stomach and digestive tract
Re-Application/ Dosage	N/A—Repellency lasts the expected lifetime of the product	Monthly	Monthly	Monthly	Monthly	Monthly
Effectiveness	Repels and eliminates pests within minutes of contact	Kills fleas within 12 hours Kills ticks within 48 hours	Kills fleas within 12 hours of application, prevents reinfestation within 2 hours	Kills fleas within 12 hours of application, prevents reinfestation within 2 hours	Kills fleas and ticks within 24 hours	Kills fleas within 24 hours
EPA-Registered	Yes	Yes	Yes	Yes	Yes	FDA Approved
Non-Greasy	Yes	No	No	No	No	N/A
Odorless	Yes	No	No	No	No	No
Approved for use by Dogs And Puppies of All Ages	Yes	No—Safe for dogs 8 weeks of age or older	No—Safe for dogs 7 weeks of age or older	No—Safe for dogs 7 weeks of age or older	No—Safe for dogs 8 weeks of age or older	No—Safe for dogs 8 weeks of age or older and weighing 4lbs or more
Approved for use by the whole family	Yes	No	No	No	No	No

Kills or Repels	Insect Shield®	Frontline® Plus	Advantage II	K9 Advantix II	PetArmor	NexGard
Ticks	✓	✓	—	✓	✓	✓
Fleas	✓	✓	✓	✓	✓	✓
Mosquitoes	✓	✓	✓	—	—	—
Flies	✓	—	✓	—	—	—
Ants*	✓	—	—	—	—	—
Chiggers*	✓	—	—	—	—	—
Midges (No-See-Ums) *	✓	—	—	—	—	—

Insect Shield Repellent Gear (pet products) repel mosquitoes, ticks, flies and fleas

*Insect Shield Repellent Apparel (humans) repel mosquitoes, ticks, ants, flies, chiggers and midges (no-see-ums)