

DuPont™ Vertrel® formulations and their applications

DuPont™ Vertrel® specialty fluids had been formulated as a replacement for Freon®. Since then it has been noticed that DuPont™ Vertrel® fluids are ideal replacements for a range of other fluids. DuPont™ Vertrel® products are available in 5 gallon pails, 55 gallon drums and in 3180 (approx.) gallon bulk ISO containers.

DuPont™ Vertrel® specialty fluid	Current & former solvents	Typical applications	Examples
DuPont™ Vertrel® XF	PFCs PF 5060 PF 5070 HCFC-225 HCFC-141b HFEs	Carrier fluid Rinsing media Grease removal Light soil cleaning Particulate removal Dielectric coolant Aerosol formulations	Various surface treatments Lubricant surface coating Drying systems with Vertrel® X-DA Krytox® grease removal Electrical cabinet maintenance Hard disk drive cleaning HAS/HGA cleaning High-voltage systems Electronics industry Automotive industry
DuPont™ Vertrel® XM DuPont™ Vertrel® XP DuPont™ Vertrel® X-P10 DuPont™ Vertrel® XE DuPont™ Vertrel® XH	HCFC-225 HFEs	Medium soil cleaning Particle removal Dust removal	Dust and light oil removal Electrical cabinet maintenance Fingerprint removal Mineral oils Hydrocarbon oils and greases
DuPont™ Vertrel® MCA DuPont™ Vertrel® MCA Plus DuPont™ Vertrel® C-HD	HCFC-141b HCFC-225 Trichloroethylene Trichloroethane nPB-based solvents HFEs	Cleanliness verification Heavy soil cleaning Metal degreasing	Removal of nonvolatile residue Liquid oxygen system cleaning Vapor degreasing for heavier oils and greases in the automotive, aerospace and medical industries
DuPont™ Vertrel® SMT DuPont™ Vertrel® XMS Plus	nPB-based solvents HCFC-225 HFEs	Defluxing	Defluxing of PCBs and hybrid circuits
DuPont™ Vertrel® X-DA DuPont™ Vertrel® X-DF	HFEs	Displacement drying for metal, glass and plastic parts	Removal of large amounts of water in the optical, medical and micro-mechanics industries
DuPont™ Vertrel® X-Si	HFEs	Metal cleaning Silicone removal Carrier fluid Swelling media	Medical industry

Note that all DuPont™ Vertrel® products are not available in all regions. Please contact the office closest to you to identify the best products available for your specific application.