

## Products List of Fluoroadditives (Surfactants and Surface Modifiers)

MEGAFACE Product No.		Structure	Ionicity	Active Ingredient (wt%)	Solvent	Appearance at Room Temperature
General- Grade	IT-Grade					
F-114		Perfluorobutyl sulfonate	Anionic	100	-	Powder
F-410		Carboxylate salt with perfluoroalkyl group	Anionic	100	-	Powder
F-493		Phosphate ester with perfluoroalkyl group	Anionic	100	-	Powder
F-494		Phosphate ester with perfluoroalkyl group	Anionic	15	Water/ MEA / IPA	Liquid
F-443		Perfluoroalkyl ethylene oxide adduct	Nonionic	100	-	Liquid
F-444		Perfluoroalkyl ethylene oxide adduct	Nonionic	100	-	Liquid
F-445		Perfluoroalkyl ethylene oxide adduct	Nonionic	100	-	Liquid
F-470	R-08	Oligomer with perfluoroalkyl, hydrophilic and lipophilic groups	Nonionic	100	-	Liquid
F-471		Oligomer with perfluoroalkyl, hydrophilic and lipophilic groups	Nonionic	100	-	Liquid
	F-472SF	Oligomer with perfluoroalkyl, hydrophilic and lipophilic groups	Nonionic	100	-	Liquid or Solid
F-474		Oligomer with perfluoroalkyl, hydrophilic and lipophilic groups	Nonionic	20	Ethyl acetate/ Toluene	Liquid
F-475		Oligomer with perfluoroalkyl, hydrophilic and lipophilic groups	Nonionic	100	-	Liquid
	R-30	Oligomer with perfluoroalkyl, hydrophilic and lipophilic groups	Nonionic	100	-	Liquid
F-477		Oligomer with perfluoroalkyl, hydrophilic and lipophilic groups	Nonionic	100	-	Liquid
F-479		Oligomer with perfluoroalkyl, hydrophilic and lipophilic groups	Nonionic	100	-	Liquid
F-480SF		Oligomer with perfluoroalkyl and hydrophilic groups	Nonionic	100	-	Liquid or Solid
F-482		Oligomer with perfluoroalkyl and lipophilic groups	Nonionic	20	MIBK	Liquid
F-483		Oligomer with perfluoroalkyl and lipophilic groups	Nonionic	20	MIBK	Liquid
F-489		Oligomer with perfluoroalkyl and lipophilic groups	Nonionic	100	-	Liquid
F-172D		Oligomer with perfluoroalkyl and lipophilic groups	Nonionic	100	-	Liquid
F-178K		Oligomer with perfluoroalkyl and lipophilic groups	Nonionic	30	Mineral spirits	Liquid
F-178RM		Oligomer with perfluoroalkyl and lipophilic groups	Nonionic	100	-	Solid
MCF-350SF		Oligomer with perfluoroalkyl, hydrophilic and lipophilic groups	Nonionic	100	-	Powder
	R-61	Oligomer with perfluoroalkyl, hydrophilic and lipophilic groups	Nonionic	20	PGMEA	Liquid
	R-90	Oligomer with perfluoroalkyl, hydrophilic and lipophilic groups	Nonionic	20	PGMEA	Liquid

IPA : Isopropyl alcohol, MEA : Monoethanol amine, MIBK : Methyl isobutyl ketone,