

ISC-Simrit Aerospace Materials

Compound Name	Material Type	Color	Hardness (Shore A)	Description
Z7257	FFKM	Black	75	AMS 7257
V75	FKM	Black	75	AMS 7276; MIL-R-83248 Type 1 Class 1
V90	FKM	Black	90	AMS 7259; MIL-R-83248 Type 2 Class 1
V115	FKM	Black	75	MIL-R-83485
V195	FKM	Brown	75	AMS 7276; MIL-R-83248 Type 1 Class 1
S40	Silicone	Red	40	AMS 3301; A-A-59588 (ZZ-R-765) Class 2a, 2b Grade 40
S50	Silicone	Red	50	AMS 3302; A-A-59588 (ZZ-R-765) Class 2a, 2b Grade 50
S60	Silicone	Red	60	AMS 3303; A-A-59588 (ZZ-R-765) Class 2a, 2b Grade 60
S70	Silicone	Red	70	AMS 3304; A-A-59588 (ZZ-R-765) Class 2a, 2b Grade 70
S80	Silicone	Red	80	AMS 3305; A-A-59588 (ZZ-R-765) Class 2a, 2b Grade 80
S315	Silicone	Red	75	AMS 7267
S312	Silicone	Red	40	A-A-59588 (ZZ-R-765) Class 1a, 1b Grade 40
S314	Silicone	Red	50	AMS 3335; A-A-59588 (ZZ-R-765) Class 1a, 1b Grade 50
S333	Silicone	Red	60	A-A-59588 (ZZ-R-765) Class 1a, 1b Grade 60
S313	Silicone	Red	70	AMS 3337; A-A-59588 (ZZ-R-765) Class 1a, 1b Grade 70
F60	Fluorosilicone	Blue	60	MIL-R-25988 Type 1 Class 1 Grade 60
F70	Fluorosilicone	Blue	70	MIL-R-25988 Type 1 Class 1 Grade 70
F75	Fluorosilicone	Blue	75	MIL-R-25988 Type 1 Class 3 Grade 75
F80	Fluorosilicone	Blue	80	MIL-R-25988 Type 1 Class 1 Grade 80
F215	Fluorosilicone	Blue	75	AMS 3327
N432	NBR	Black	75	AMS-P-25732
N466	NBR	Black	65	AMS 7271
E427	EPDM	Black	80	NAS 1613

Simrit O-Ring Business Unit

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ISC-Simrit General Industrial Materials

Compound Name	Material Type	Color	Hardness (Shore A)	Description
75 Simriz 485	FFKM	Black	75	General purpose (230°C), amine resistant perfluoroelastomer
75 Simriz 487	FFKM	Black	75	High temperature (300°C) perfluoroelastomer
V60	FKM	Black	62	Genuine Viton® based general purpose, copolymer FKM
V75	FKM	Black	75	Genuine Viton based general purpose, copolymer FKM
V75BR	FKM	Brown	75	General purpose, low compression set, copolymer FKM
V90	FKM	Black	90	Genuine Viton based general purpose, copolymer FKM
V121	FKM	Black	75	Genuine Viton based terpolymer FKM for improved chemical resistance
V141	FKM	Black	80	Genuine Viton based high-fluorine FKM for chemical applications
V115	FKM	Black	75	Genuine Viton GLT based FKM for low temperature applications
V123	FKM	Black	75	Genuine Viton GFLT based FKM for low temperature applications
V176	FKM	Black	75	Lead-free, acid resistant FKM for aqueous media applications
V158	FKM	Green	80	Internally lubed FKM for low friction applications (contains PTFE)
75 FKM 4401	FKM	Black	75	General purpose copolymer FKM
CV75	Viton ETP	Black	75	Genuine Viton ETP based super chemically resistant FKM
CV90	Viton ETP	Black	90	Genuine Viton ETP based super chemically resistant FKM
V175	Aflas®	Black	75	Aflas based general purpose fluorocarbon elastomer
F70	Fluorosilicone	Blue	70	General purpose fluorosilicone (also available in 50, 60 & 80 duro)
S70	Silicone	Red	70	General purpose silicone (also available in 50, 60 & 80 duro)
N470	NBR	Black	70	General purpose NBR with UL approval for oil service applications
72 NBR 872	NBR	Black	72	General purpose NBR
N475	NBR	Black	75	Peroxide cured, low compression set NBR
90 NBR 4006	NBR	Black	90	General purpose NBR. Oil & fuel resistant
HN441	HNBR	Black	75	General purpose, high modulus HNBR
E425	EPDM	Black	70	General purpose, peroxide cured EPDM
PA401	Polyacrylate	Black	70	General purpose polyacrylate
EA001	Vamac®	Black	70	General purpose, low swell Vamac

Viton® is a registered trademark of DuPont Dow Elastomers. Aflas® is a registered trademark of Asahi Glass Co. Vamac® is a registered trademark of DuPont.

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ISC-Simrit Drinking Water Application Materials

ISC-Simrit offers a wide range of elastomeric compounds that are formulated to comply with standards for components in contact with drinking water set forth by NSF International, by WRc PLC and by KTW. All materials listed are approved per ANSI/NSF Standard 61: Drinking Water System Components. Two materials listed are also approved for contact with drinking water by WRc, the UK equivalent to NSF, and by KTW, the German counterpart to NSF.

Compound Name	Material Type	Color	Hardness (Shore A)	Description
70 EPDM 281	EPDM	Black	70	ANSI/NSF Std. 61, WRc, KTW approved for drinking water applications
E429	EPDM	Black	70	ANSI/NSF Std. 61 approved, internally lubricated, peroxide cured
N431	NBR	Black	60	ANSI/NSF Std. 61 approved, internally lubricated, slight bloom
70 NBR 150	NBR	Black	70	ANSI/NSF Std. 61, WRc, KTW approved for drinking water applications
N442	NBR	Black	70	ANSI/NSF Std. 61 approved, internally lubricated, slight bloom

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ISC-Simrit Food & Drug Materials

ISC-Simrit offers a wide range of elastomeric compounds that are formulated to comply with regulations issued by the United States Federal Food & Drug Administration (FDA). These regulations are found in Title 21, Chapter 1, Subchapter B, Section 177.2600 of the Federal Food & Cosmetic Act. These regulations define which elastomers and compounding ingredients can be used in rubber articles intended for repeated contact with food. Most compounds (typically those that are non-black) are for use with aqueous and fatty foods, while some (typically those that are black) are restricted to aqueous foods.

Compound Name	Material Type	Color	Hardness (Shore A)	Description
75 Simriz 484	FFKM	Black	75	FDA compliant
V148	FKM	Black	75	FDA compliant
V178	FKM	Red	75	FDA and USDA 3A Sanitary Standard approved
V180	FKM	White	75	FDA compliant
S40	Silicone	Red	40	FDA compliant
S50	Silicone	Red	50	FDA compliant
S60	Silicone	Red	60	FDA compliant
S70	Silicone	Red	70	FDA and USDA 3A Sanitary Standard approved
S70CL	Silicone	Clear	70	FDA compliant, clear to meet special purity needs
S70WH	Silicone	White	70	FDA compliant, white to meet special purity needs
S80	Silicone	Red	80	FDA compliant
E429	EPDM	Black	70	FDA compliant except for with dairy or fatty foods, peroxide cured, internally lubricated, NSF-61 approved
N445	NBR	Black	70	FDA and USDA 3A Sanitary Standard approved, internally lubricated

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Simriz® Perfluoroelastomers

The Simrit® Division of Freudenberg-NOK would like to introduce Simriz®, the new brand name for our perfluoroelastomer materials. By adopting the Simriz name, currently in use by Simrit-Europe, we have created a truly global perfluoroelastomer product line. The materials will have the same names and formulations in North America, Europe and Asia. In addition, all AS568 and standard metric sizes will be available without a tooling charge, and our increased purchasing power will mean better prices for you. We look forward to working with you to fill all of your perfluoroelastomer o-ring and molded shape needs.

Compound Name	Material Type	Color	Hardness (Shore A)	Description
70 Simriz 481	FFKM	Black	70	General purpose (230°C) black perfluoroelastomer
75 Simriz 484	FFKM	Black	75	FDA compliant black perfluoroelastomer
75 Simriz 485	FFKM	Black	75	General purpose (230°C) black perfluoroelastomer
75 Simriz 486	FFKM	White	75	General purpose (230°C) white perfluoroelastomer
75 Simriz 487	FFKM	Black	75	High temperature (300°C) black perfluoroelastomer
70 Simriz 488	FFKM	White	70	High temperature (300°C) white perfluoroelastomer
65 Simriz 489	FFKM	Clear	65	High purity, clear perfluoroelastomer (260°C)
Z7257	FFKM	Black	75	Perfluoroelastomer meeting requirements of AMS 7257

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