VANLINK™ Crosslinking Agents Summary

Product	Chemical Composition	General Recommendations
VANLINK™ 1 Crosslinking Agent	Hexamethylenediamine carbamate (HMDC)	A blocked diamine crosslinking agent used in fluoroelastomers (FKM), polyacrylic (ACM), ethylene-acrylic (AEM), and epichlorohydrin (ECO) elastomers. Typical loading level is 0.5 – 1.5 phr depending on elastomer, cure rate, and physical properties needed. FDA Compliant.
VANLINK 2	Tetraphenylphosphonium bromide (TPPB)	A phosphonium salt used in fluoroelastomers (FKM) and polyacrylic polymers (ACM). Used an as accelerator in FKM and as an adhesion promoter to FKM to other elastomers. A curative in ACM improving compression set, mold fouling, and compound shelf life.
VANLINK 3	N,N'-dicinnamylidene-1,6 hexanediamine	A blocked diamine crosslinking agent used for very safe processing of fluoroelastomers (FKM), polyacrylic (ACM), ethylene-acrylic (AEM), and epichlorohydrin (CO-ECO) elastomers. Typical loading level is 2.5 – 3.5 phr depending on elastomer, cure rate, and physical properties needed. May be used in combination with **VANLINK 1**.
VANLINK 4	4,4'-methylene bis (cyclohexylamine) carbamate	An alicyclic amine salt used as a curing agent mainly for fluorelastomers (FKM). For its safety in processing, it can be positioned between **VANLINK 1** and **VANLINK 3**. Typical loading level of 2 phr provides an optimal balance of safe processing, cure rate, and physical properties. FDA Compliant.
VANLINK 7	Triallyl Isocyanurate (TAIC)	A coagent for peroxide curing of many elastomer types (EPDM, FKM, CPE, etc). It improves heat resistance, physical properties and compression set. Yellow liquid at 30°C and white solid at 25°C.
VANLINK 7-70	TAIC 70%	A 70% active powder version of **VANLINK 7**.
VANLINK 7-50	TAIC 50%	A 50% active powder version of **VANLINK 7**.
VANLINK 18	Octadecyltrimethyl-ammonium bromide (OTAB)	A cationic surfactant used as an accelerator for ACM & AEM and as an additional accelerator for FKM. Also used as an adhesion promoter in several elastomers and a performance improver for some TPEs.

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