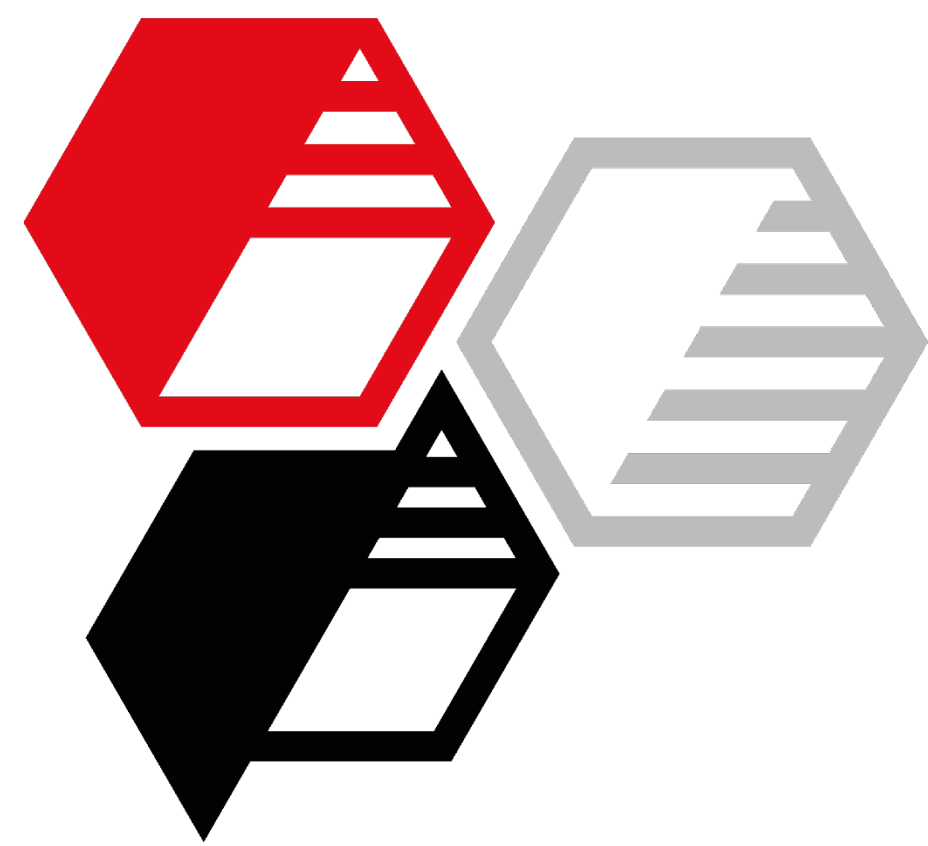
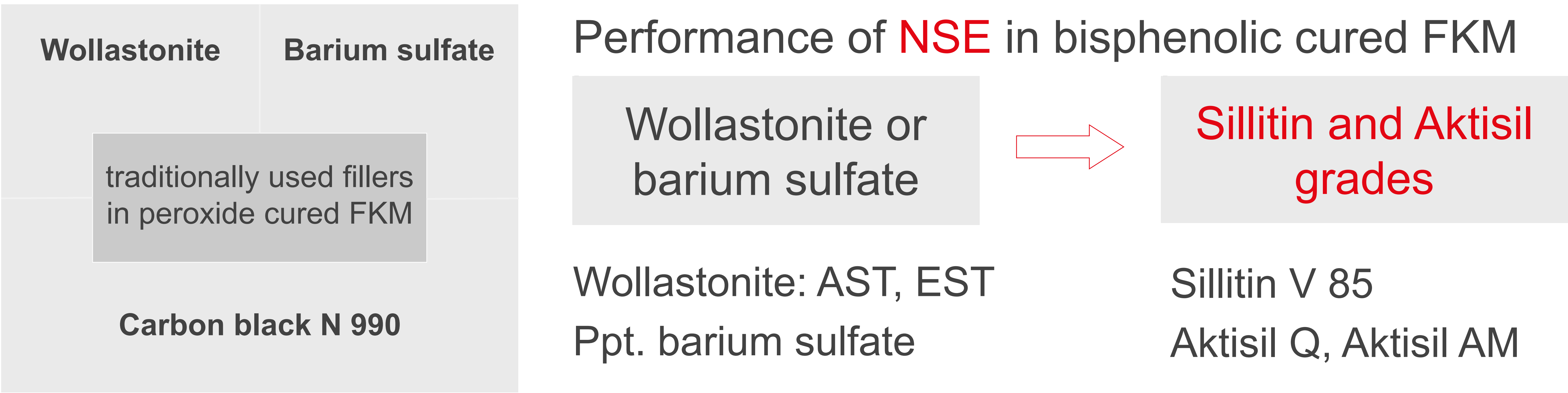


Neuburg Siliceous Earth (NSE) vs wollastonite and barium sulfate in bisphenolic cured FKM



Objective



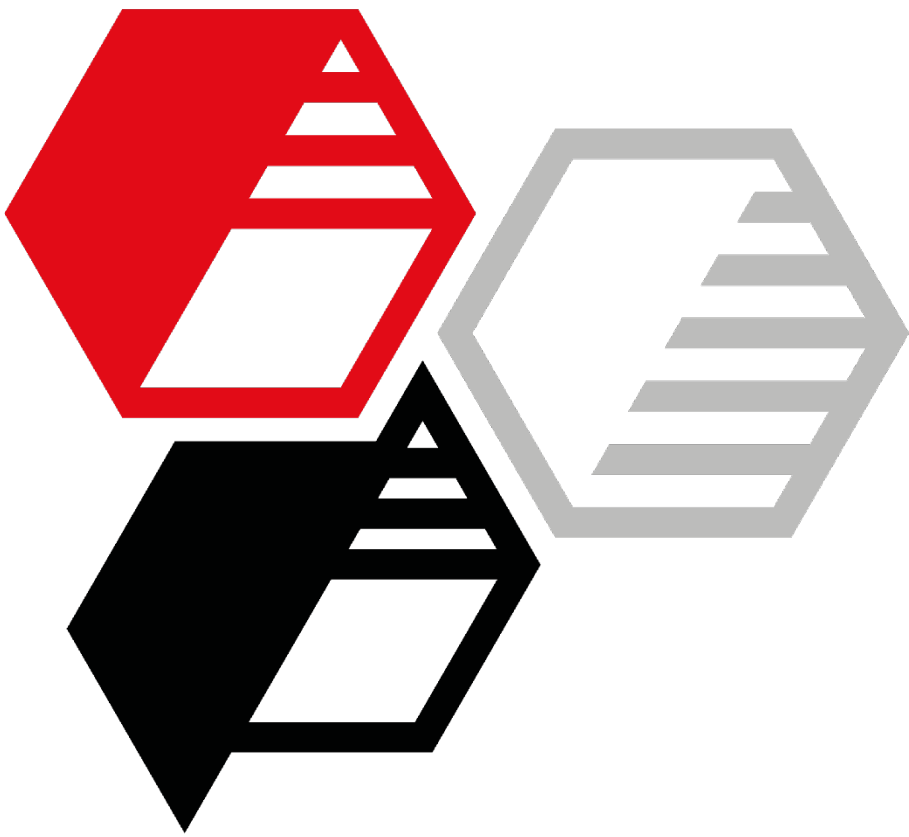
Formulation

Hardness range: 70 – 80 Shore A		Wollastonite	Barium sulfate	NSE
Viton A-201C	FKM, ML 1+1 (121 °C): 20 MU high curative level	100	100	100
Elastomag 170	MgO	3	3	3
Vulcofac F45	Ca(OH) ₂	6	6	6
Wollastonite	Calcium silicate	45	-	-
Barium sulfate	ppt. barium sulfate	-	74	-
NSE	Neuburg Siliceous Earth	-	-	45

Summary

Benefits of NSE	vs. Wollastonite AST			vs. Wollastonite EST			vs. Barium sulfate			
	Sillitin V 85	Aktisil Q	Aktisil AM	Sillitin V 85	Aktisil Q	Aktisil AM	Sillitin V 85	Aktisil Q	Aktisil AM	
Tensile strength		=	=		=	=	+	+	+	+ improvement + improvement, best grade = no effect
Elongation at break	+	=	=	+	=	=	=			
Modulus 100 %			=			=	+	+	+	
Tear resistance	+	=	=	+	=	=	+	=	=	
Abrasion resistance	=	=	=	=	=	=	+	+	+	
CS ISO 232 °C	=	=	=	+	=	=	=	=	=	
Resistance to hot air	=	=	=	=	=	=	=	=	=	
Resistance to water	=	=	=	+	+	+		=		
Resistance to fuel	+	=	+	+	=	+	+	=	+	
Resistance to oil	=	=		=			=	=		

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Results – samples post-cured, 24 h / 232 °C

