

NEUBURG SILICEOUS EARTH IN FKM FUEL HOSE, BISPHENOLIC CURE COST-EFFECTIVE ALTERNATIVE TO N990

FORMULATION

Formulation in phr Target: 80 ± 5 Sh. A	N990	NSE
FKM, low curative level, dipolymer (HFP+VDF), 66 % fluorine, ML1+10 (121 °C) 44 MU	100	100
Elastomag 170, MgO	3	3
Vulcofac F45, Ca(OH) ₂	6	6
N990	30	-
Neuburg Siliceous Earth	-	45

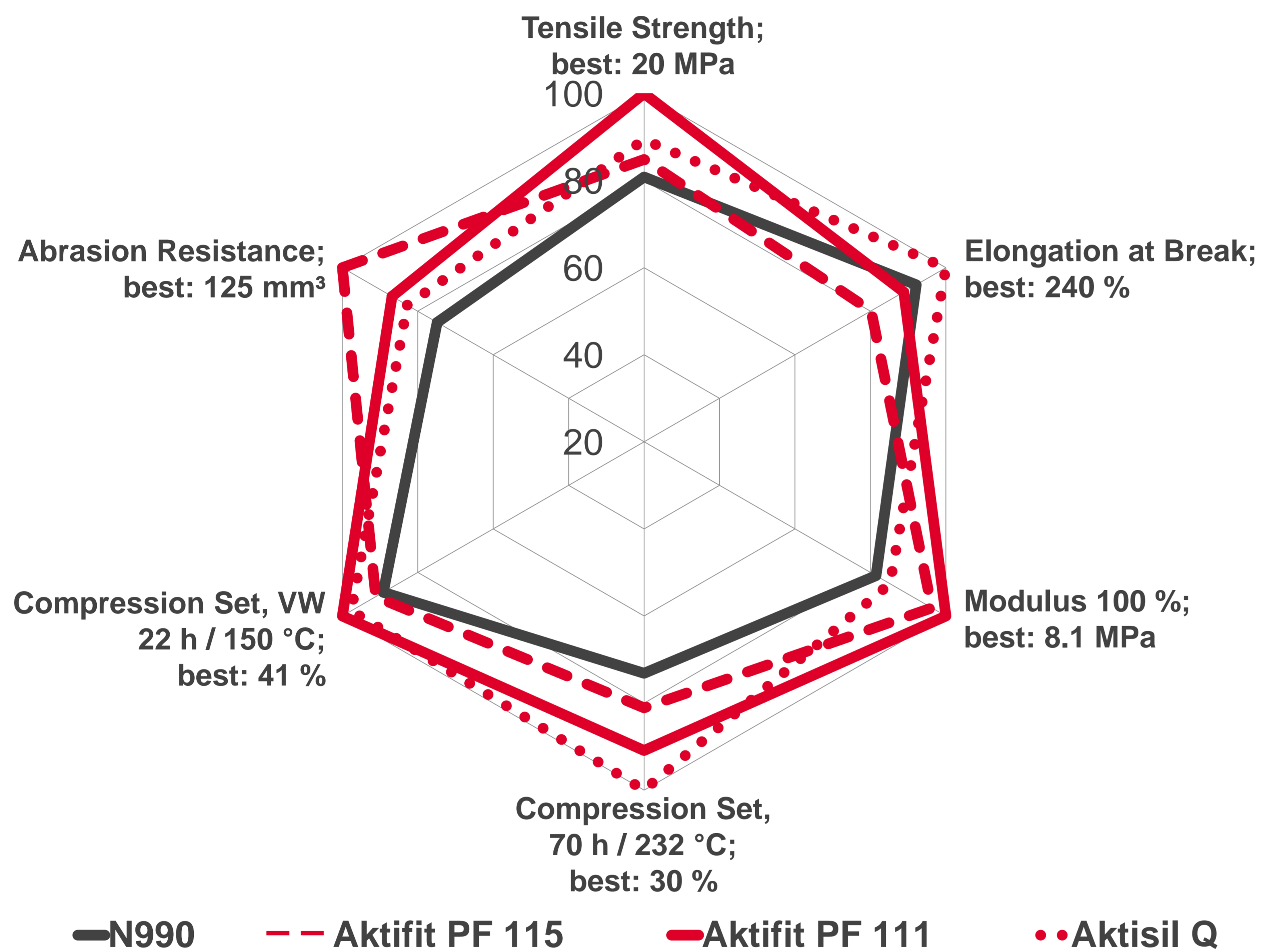
Neuburg Siliceous Earth Grades (NSE)

Aktifit PF 115

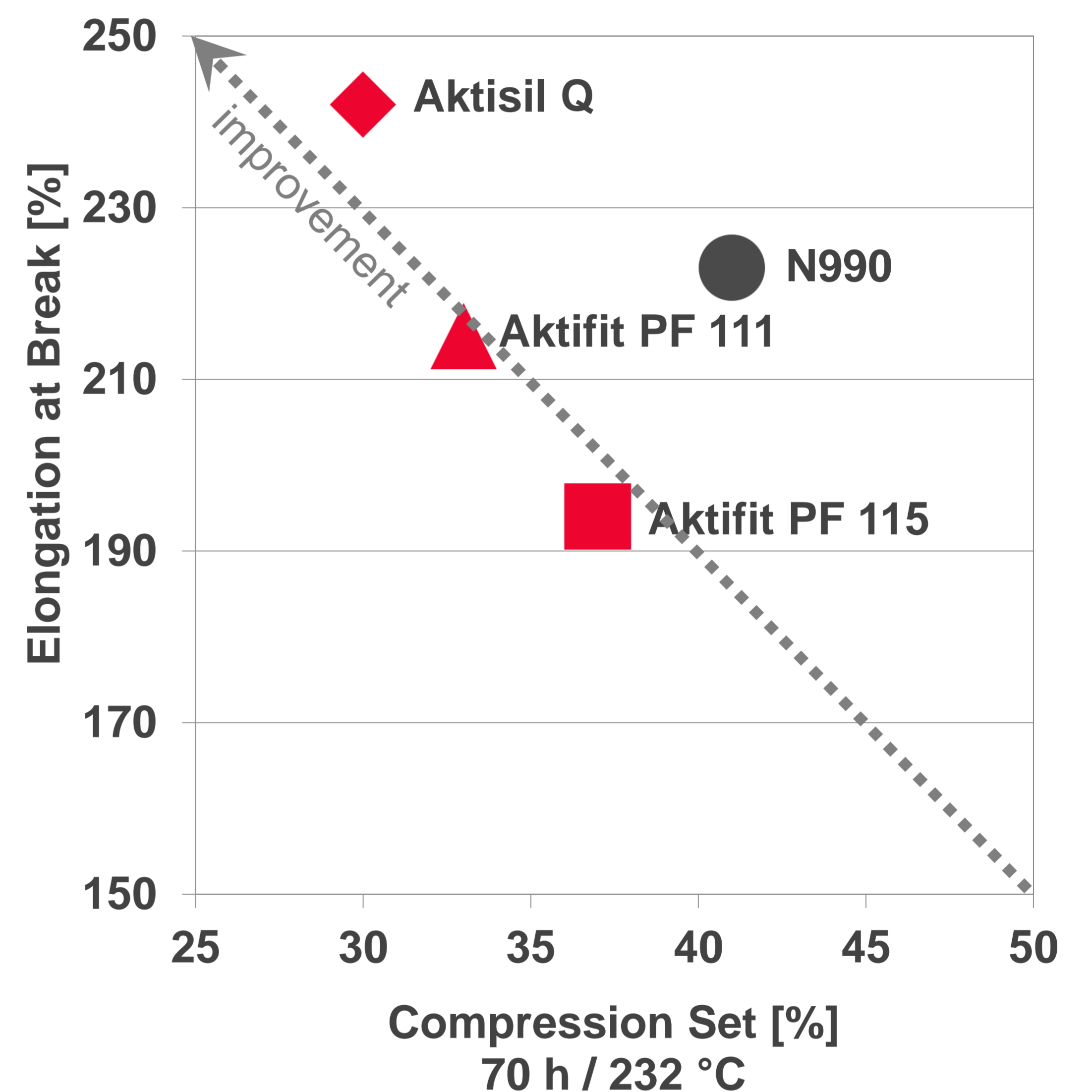
Aktifit PF 111

Aktisil Q

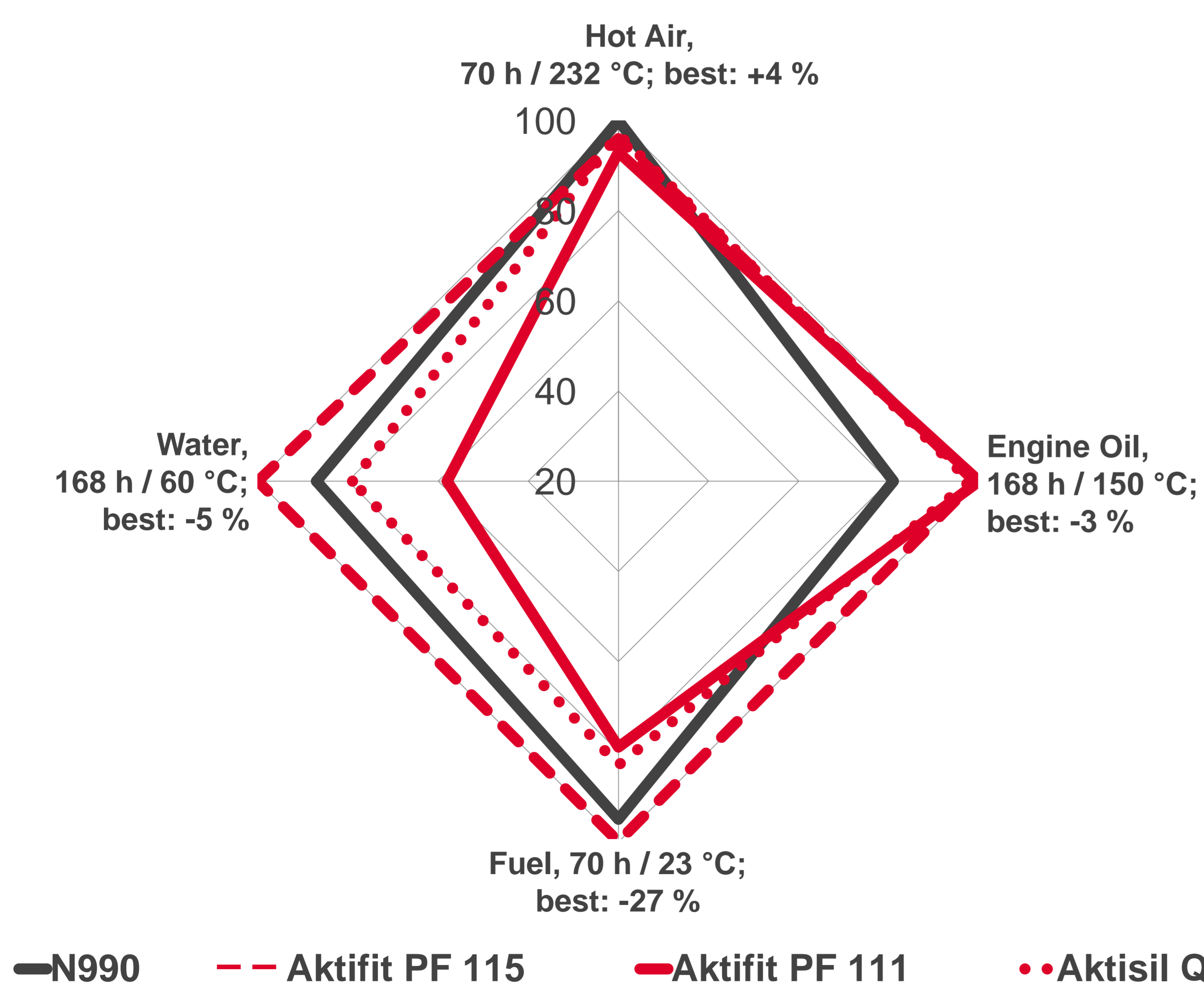
General Mechanical Properties Index: 100 = best



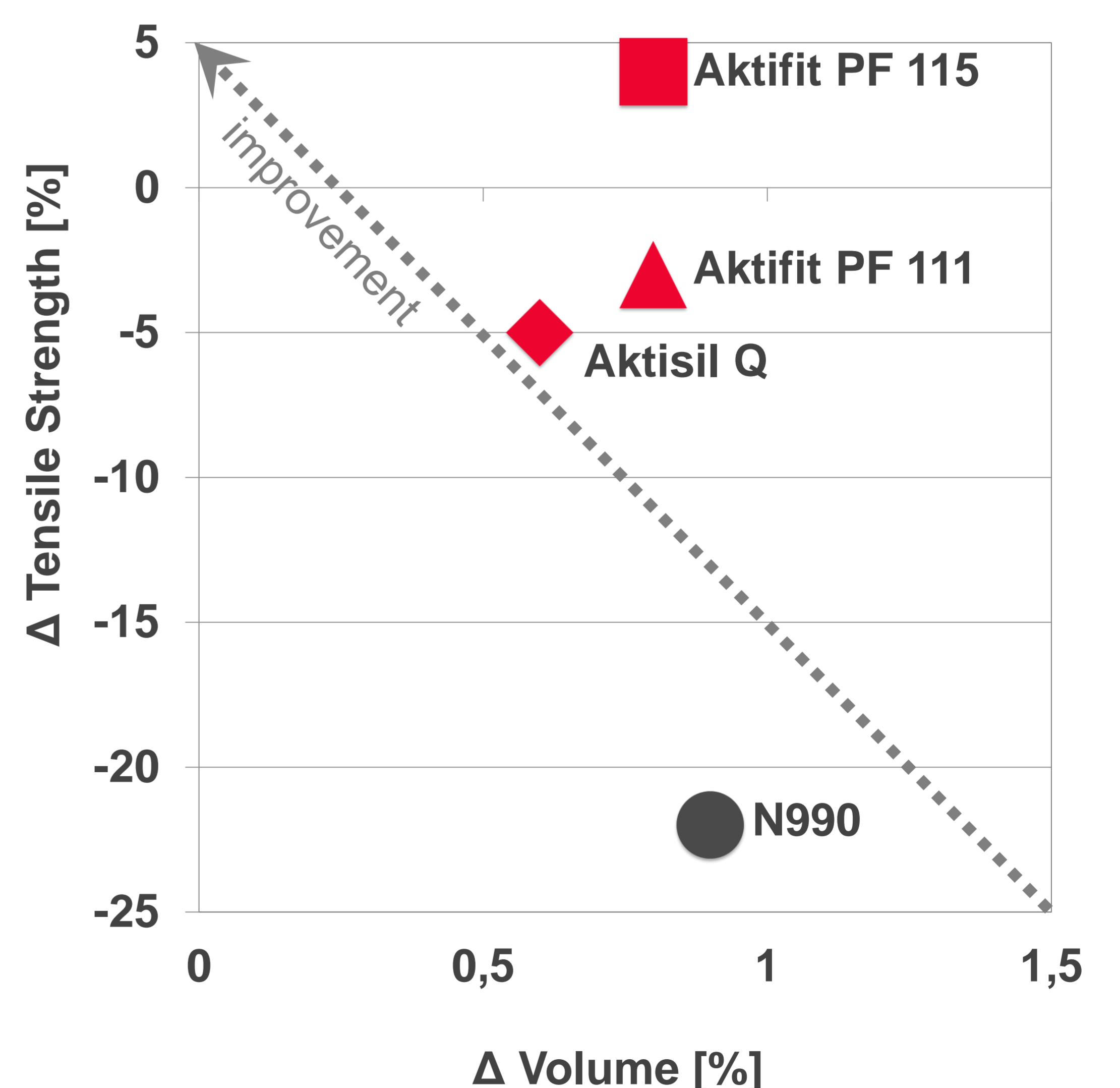
Elongation at Break vs. Compression Set



Media Resistance (Reference: Δ Tensile Strength [%]) Index: 100 = best



Immersion in Engine Oil, 168 h / 150 °C Δ Tensile Strength vs. Δ Volume



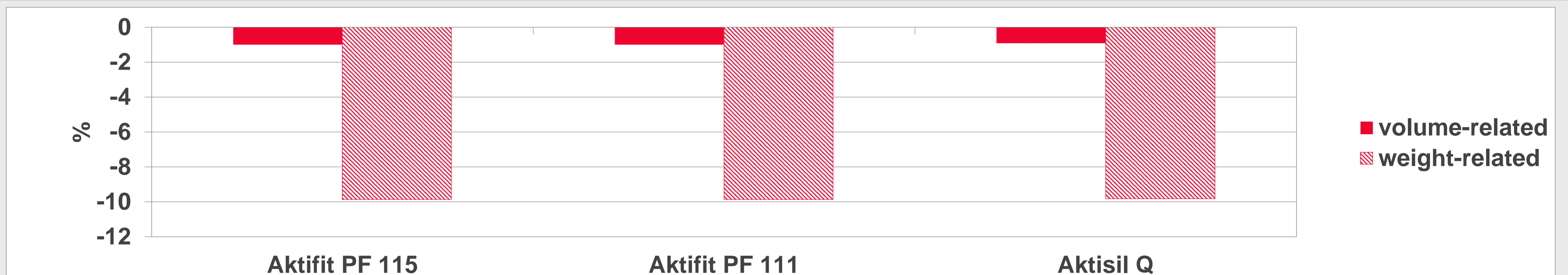
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BENEFITS OF NSE VS. N990 IN DIFFERENT TYPES OF POLYMERS

	FKM with Low Curative Level			FKM with High Curative Level Viton A-201 C		
	Aktifit PF 115	Aktifit PF 111	Aktisil Q	Aktifit PF 115	Aktifit PF 111	Aktisil Q
Improved Initial Property	Abrasion Resistance	Tensile Strength and Modulus 100 %	Compression Set and Elong. at Break	Abrasion Resistance and T. Strength	Modulus 100 %	Compression Set VW
Engine Oil Resistance	+	+	+	+	+	+
Heat Resistance	=	=	=	+	+	+
Fuel Resistance	+			+	+	
Water Resistance	+			=		

+ improvement + improvement, best grade = no effect

COMPOUND COSTS NSE VS. N990



SUMMARY

