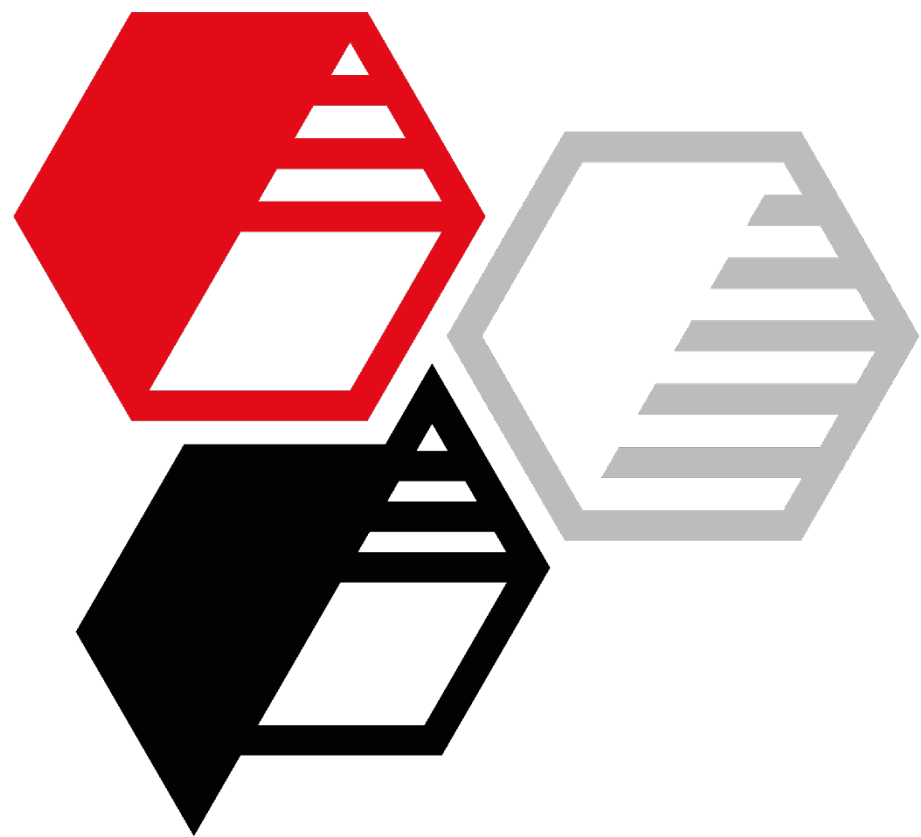
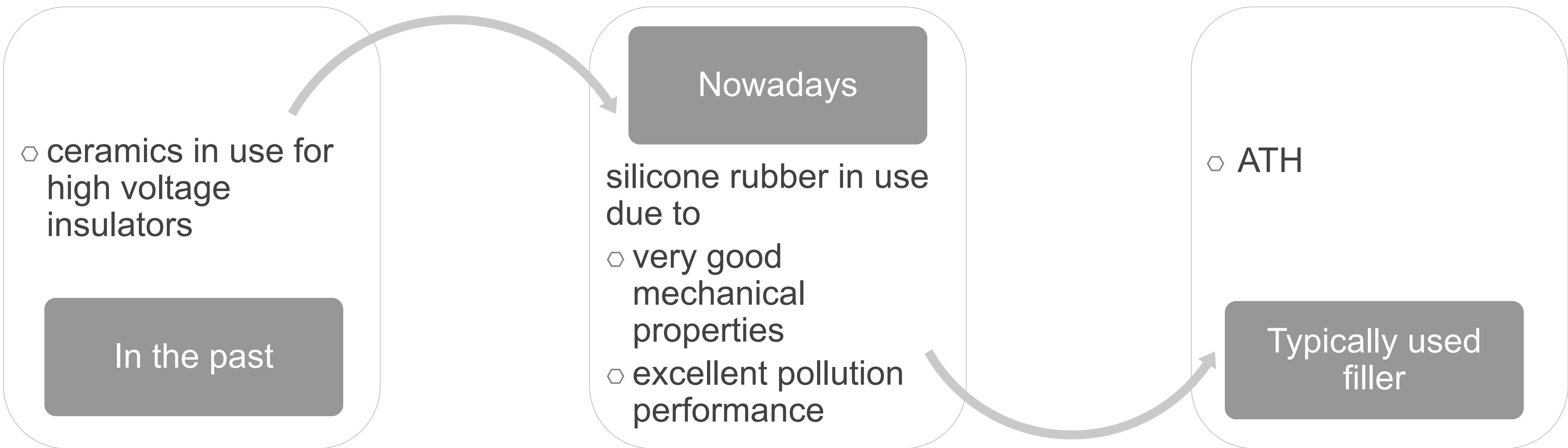


Neuburg Siliceous Earth in silicone rubber for high voltage applications

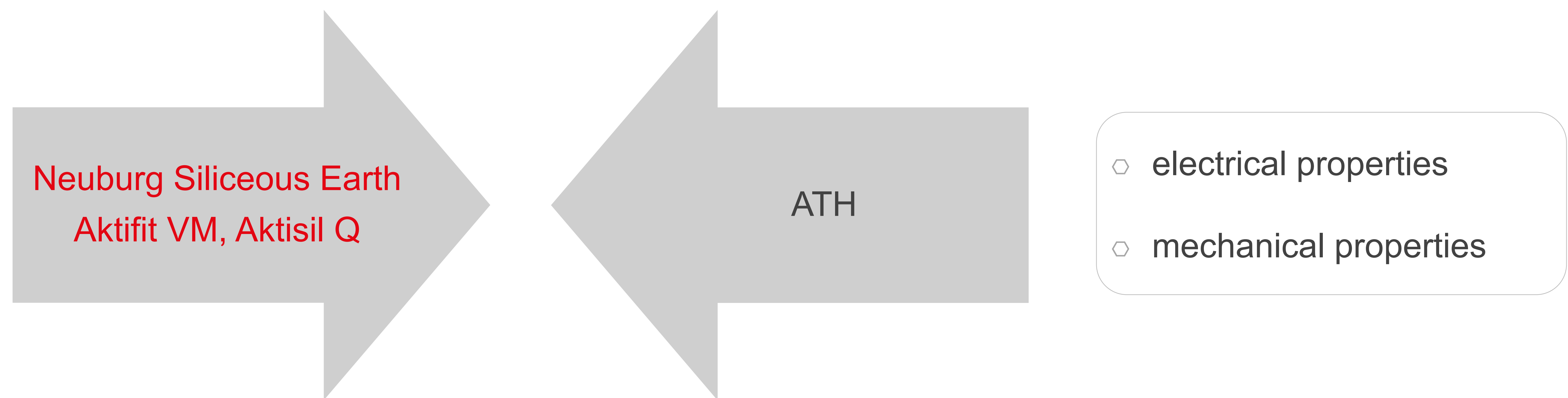
Volume resistivity and electric arc resistance



Status quo



Objective



Base formulation and variations

Base formulation	phr	Filler variations	R 401/50			R 401/40
			ATH v	ATH Aktifit VM	ATH Aktisil Q	Aktisil Q
Elastosil R 401/50 resp. 40	100	ATH v	105	-	-	-
Elastosil AUX Curing Agent C6		ATH	-	70	70	-
Filler	varied	Aktifit VM	-	35	-	-
		Aktisil Q	-	-	35	100

Curing: 5 min. / 165 °C

Summary

Benefits of Neuburg Siliceous Earth (NSE)

- ➔ improved processing: stickiness of silicone rubber and ATH is reduced with NSE
- ➔ reduced compound costs

Aktifit VM or Aktisil Q in combination with ATH

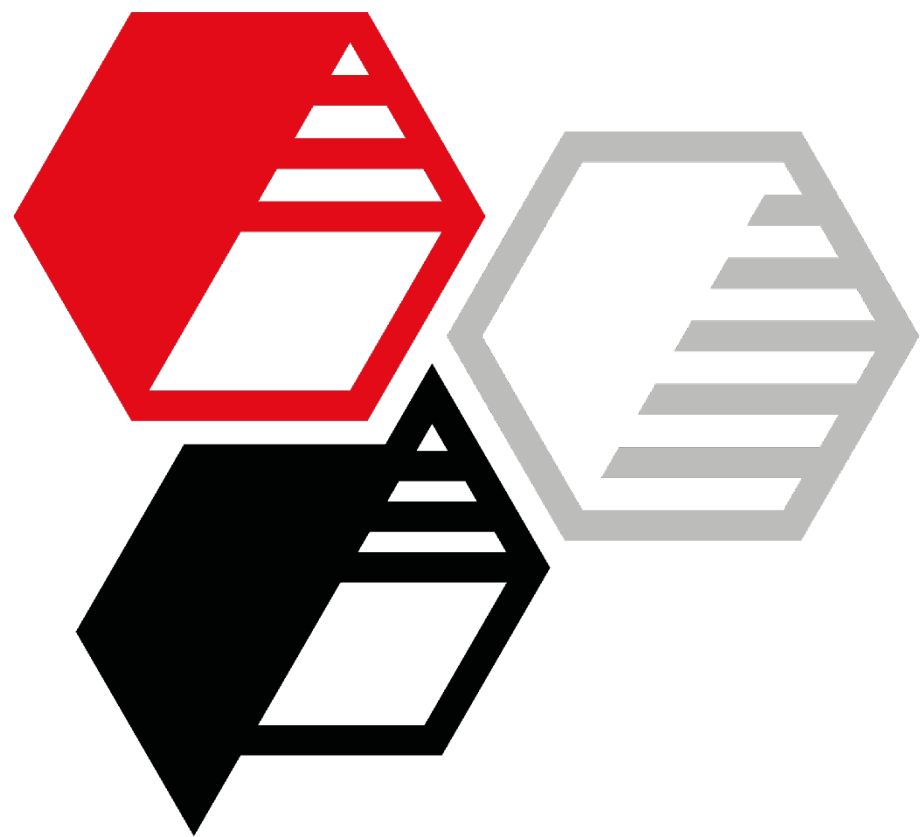
- ➔ reduced conversion times
- ➔ increased elongation at break and tear resistance
- ➔ comparable electric properties

Aktisil Q without the use of ATH

- ➔ reduced conversion times
- ➔ increased elongation at break and tensile strength
- ➔ improved compression set
- ➔ comparable tear resistance
- ➔ roughly comparable electric properties

Neuburg Siliceous Earth in silicone rubber for high voltage applications

Volume resistivity and electric arc resistance



Results

