Basic Characteristics of Selected Insulation Materials for Thermocouple and Extension Wire

Material	Temp Range		Flexibility	Flame Retardance	Resistance To				
	Continuous	Single			Abrasion	Acids	Solvents	Bases	Moisture
Polyvinyl Chloride	105℃	150℃	Excel	Good	Good	Good	Fair	Good	Good
Silicone Rubber	200℃	260℃	Excel	Good	Fair	Poor	Fair	Good	Good
FEP Teflon	200℃	260℃	Good	Excel	Excel	Excel	Excel	Excel	Excel
PFA Fiber	260℃	316℃	Good	Excel	Excel	Excel	Excel	Excel	Excel
Kapton	316℃	427℃	Good	Excel	Excel	Excel	Excel	Excel	Excel
Fiber Glass	482℃	538℃	Good	Excel	Excel	Good	Excel	Excel	Good
High Temp Fiber Glass	704℃	871℃	Good	Excel	Excel	Good	Excel	Excel	Good
Ceramic Fiber	1204℃	1427℃	Good	Excel	Excel	Fair	Excel	Excel	Fair