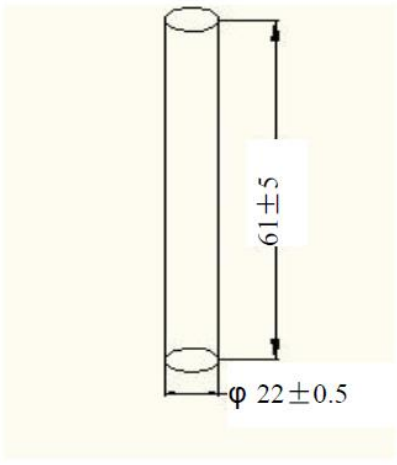
RAW ALLOYED TEG POWER MATERIAL AVAILABLE IN P & N- TYPE PbTe

~1.0 Kg Ingots (Minimums apply)

SPECIFICATIONS:

Performance Specification	p-Type	n-Type	Note
Part Number	PbTe-P	PbTe-N	
Diameter (mm)	22±0.5	22±0.5	
Length (mm)	61±5	61±5	
Electrical Conductivity σ(10^2Sm^{-1})	900~1200	900~1200	300K
Seebeck Coefficient α(μVK^{-1})	100～180	250～350	500-700K
Thermal Conductivity (Wm^{-1}K^{-1})	1.1~2	2.2~3	300-700K
Power Factor P(WmK^{-2})	≥0.0018	≥0.0048	600K
***Peak Dimensionless ZT* value**	≥0.9	≥1.1	

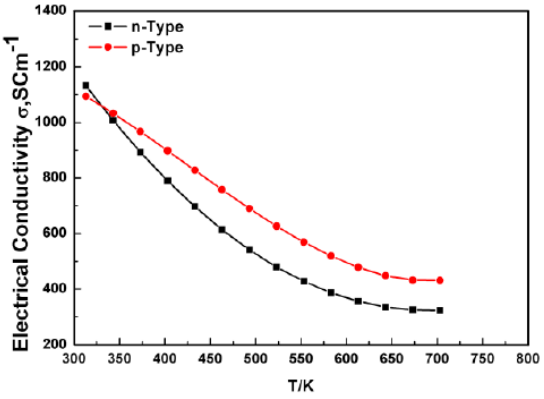
Geometric Characteristics (in millimeters)



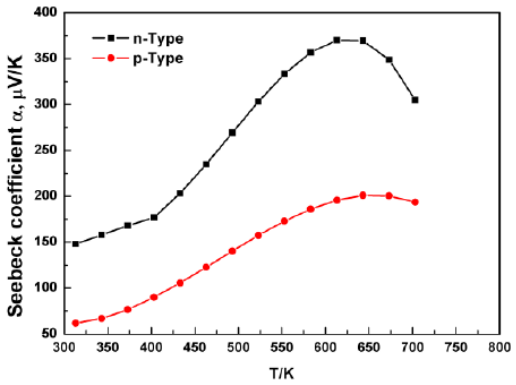
p-type Ingot

n-type Ingot

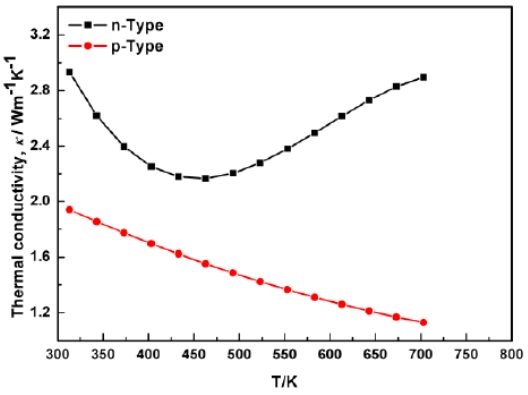
PERFORMANCE CHARACTERISTICS



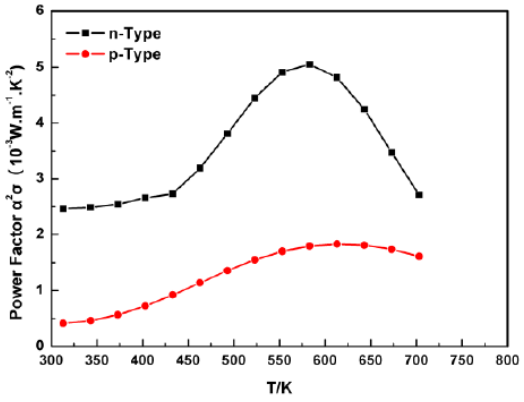
Electrical conductivity of the PbTe-based ingot



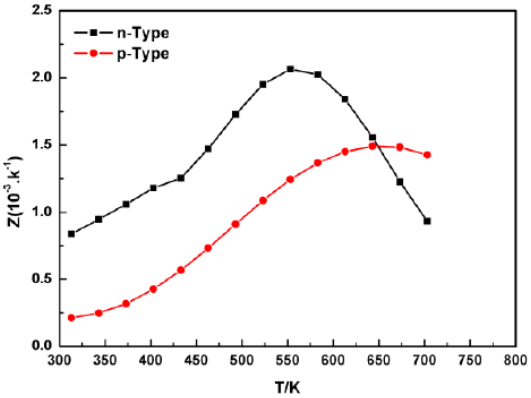
Seebeck coefficients of the PbTe -based ingot



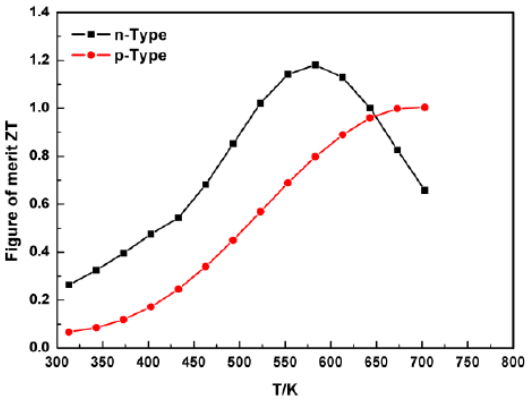
Thermal conductivity of the PbTe -based ingot



Power factors of the PbTe-based ingot



Z values of the PbTe -based ingot



ZT values of the PbTe -based ingot

Caution

Caution: Handle with Care

Store in a low humidity environment

ALL measurements are performed between 300 & 700K

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