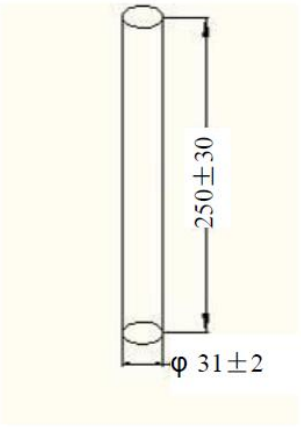
RAW ALLOYED TEG POWER MATERIAL AVAILABLE IN P & N- TYPE

~1.4 Kg Ingots or 100g Solid Ingot Sections (Minimums apply)

SPECIFICATIONS:

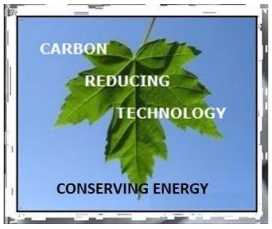
Performance Specification	p-Type	n-Type	Note
Type Number	BiTe-P	BiTe-N	
Diameter (mm)	31 ± 2	31 ± 2	
Length (mm)	250 ± 30	250 ± 30	
Density (gcm^{-3})	6.8	7.8	
Electrical Conductivity σ($10^{2}Sm^{-1}$)	850 ~ 1250	850 ~ 1250	300 K
Seebeck Coefficient α(μVK^{-1})	190 ~ 230	190 ~ 230	300 K
Thermal Conductivity κ($Wm^{-1}K^{-1}$)	1.2 ~ 1.6	1.2 ~ 1.6	300 K
Power Factor P(WmK^{-2})	≥ 0.005	≥ 0.005	300 K
ZT Value	≥ 1.0	≥1.0	300 K

Geometric Characteristics (in millimeters)



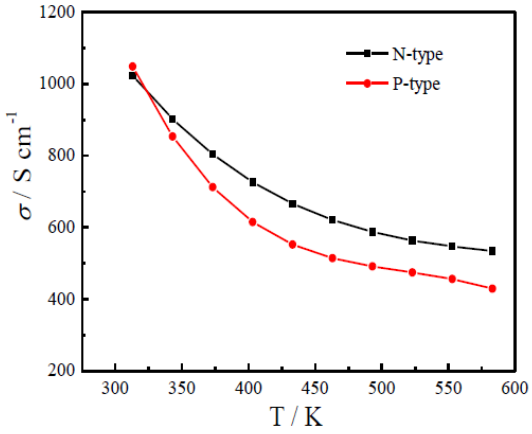
p-type Ingot

n-type Ingot

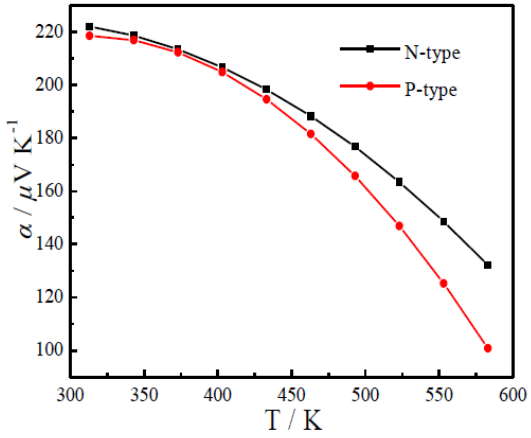


TEC
SOLIDSTATE POWER GENERATORS

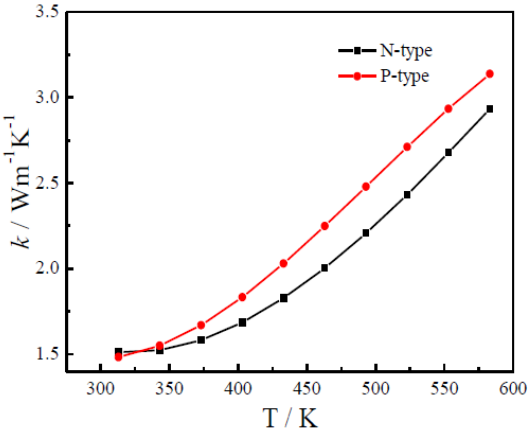
PERFORMANCE CHARACTERISTICS



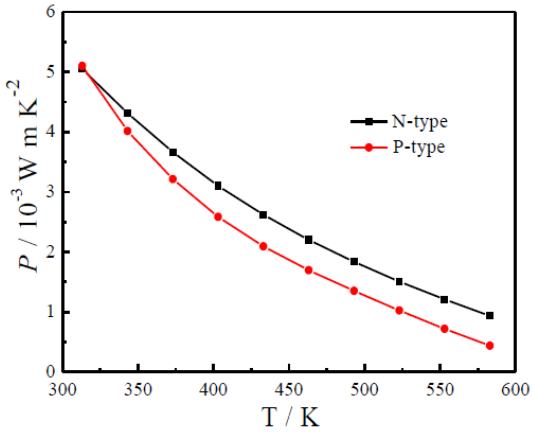
Electrical conductivity of the Bi_2Te_3-based ingot



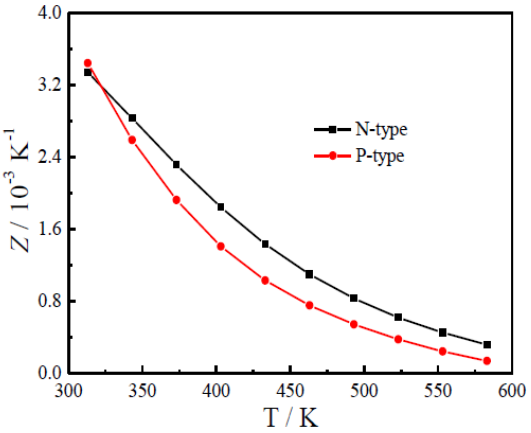
Seebeck coefficients of the Bi_2Te_3-based ingot



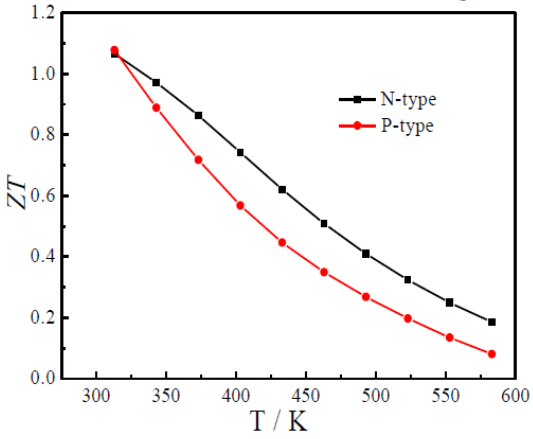
Thermal conductivity of the Bi_2Te_3-based ingot



Power factors of the Bi_2Te_3-based ingot



Z values of the Bi_2Te_3-based ingot



ZT values of the Bi_2Te_3-based ingot