

FINAL REPORT

MANGANESE REPORT

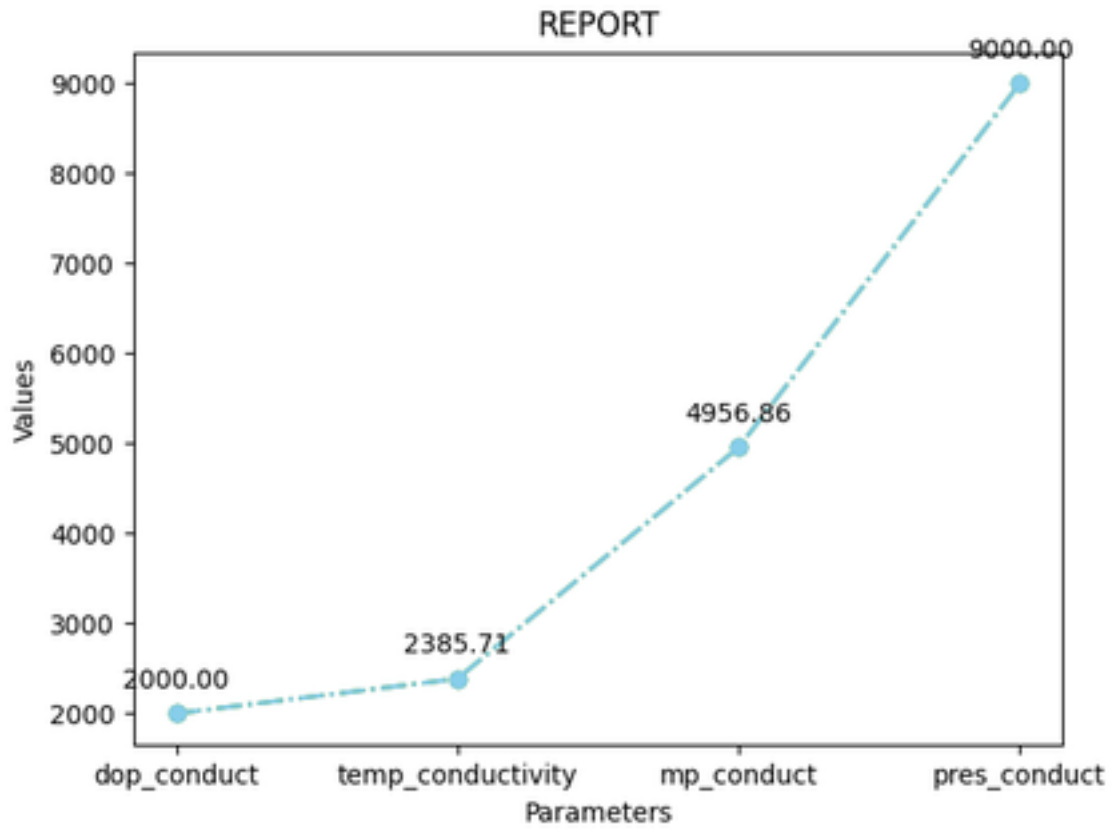
S.No	CONTENT	RESULT ANALYSIS
1	Manganese Composition	MnS ₂ Cathode
2	Manganese Form	MnS ₂ powder
3	Size	DIA : 14.3 mm - 14.4 mm & Length: 50.3 - 50.4 mm
4	Weight	97.4737 grams

POROSITY REPORT

S.No	CONTENT	RESULT ANALYSIS
1	Porosity Value	0.502050923
2	Mercury Intruded	0.239642061 cm ³ /g
3	Prediction	10.42 %
4	Result	Porosity is moderate (10.42%) - Optimal to use

CONDUCTIVITY REPORT

Parameters	Input	Expected(S/m)	Conductivity Value(S/m)
Doping (gms)	Al 194.9474	2222.8	2000.0
Temperature (°C)	125	5700.0	2385.71
Melting Point (°C)	660	4464.92	4956.86
Pressure (MPa)	6000	2800.0	9000.0



DURATION OF ANALYSIS : 0.734 seconds