

Block 03 — Electric Resistance and Power

Student Group

First Name	Surname	Matrikel Nr.

Table of Contents

Conductivity of Matter	2
Conductor	2
Semiconductor	2
Isolator	2

Conductivity of Matter

Conductor

Charge carriers are freely movable in the conductor.

Examples:

- Metals
- Plasma

Semiconductor

In semiconductors, charge carriers can be generated by heat and light irradiation. Often a small movement of electrons is already possible at room temperature.

Examples:

- Silicon
- Diamond

Isolator

In the insulator, charge carriers are firmly bound to the atomic shells.

Examples:

- many plastics and salts

From:

<https://mexle.te.hs-heilbronn.de/> - MEXLE Wiki

Permanent link:

https://mexle.te.hs-heilbronn.de/electrical_engineering_and_electronics_1/block03?rev=1758980699

Last update: **2025/09/27 15:44**

