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SMART POWER

## Product environmental information

### Switch-disconnectors, OT1000/1250/1600E

#### Product Conformity & Compliance

##### REACH and SVHC (Regulation EC 1907/2006)

With reference to the Regulation (EC) No. 1907/2006 issued by the European Union for the Registration, Authorization and Restriction of Chemicals (REACH), please be aware that:

- During normal and reasonably foreseeable conditions use, OT switch disconnectors manufactured by ABB Oy, Smart Power do not internationally release any substance or preparation
- ABB Oy, Smart Power continuously assessment

OT switch disconnectors were classified as Articles and during normal reasonably foreseeable conditions of use, do not internationally release any substance or preparation.

ABB Oy, Smart Power continuously undertake communication throughout its supply chain in order to collect information about suppliers' compliance with REACH regulation.

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## Product Conformity & Compliance

### **RoHs and RoHs II**

OT are not within Directive 2002/95/EC (RoHs) scope. It is still not clear if they will be within the scope of Directive 2011/65/EU (RoHS II), whose provisions, in any case, will be mandatory starting from July 2019. However, according to our best knowledge, OT switch disconnectors do not contain any of the restricted substances listed into RoHS and RoHS II directives.

### **SVHC (Regulation EC 1907/2006 REACH)**

ABB Oy, Smart Power continuously assesses its products for content of Substances of Very High Concern (SVHC), as included in the "Candidate List" by the European Chemicals Agency (ECHA). According to our best knowledge, OT switch disconnectors do not contain SVHC substances exceeding 0.1% w/w.

### **WEEE**

OT switch disconnectors are compliant and in the scope Waste of Electrical and Electronics equipment (WEEE) Directive 2012/19/EU.

### **Product Safety**

Certification of conformity with the product standards is carried out in the SGS Fimko. The product has been tested according to standards:

IEC/EN60947-1

IEC/EN60947-3

Directives:

"Low Voltage Directive" (LDV) 2014/35/EC

"Electromagnetic Compatibility Directive" (EMC) 2014/30/EC

# Material declaration

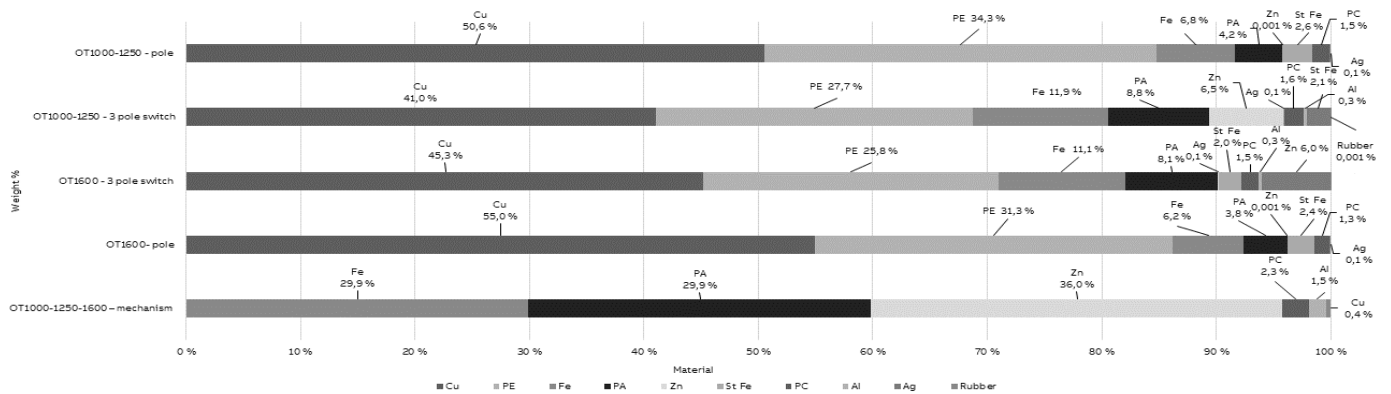
The charts below the constituents of OT1000-1600E switches. The constituent materials are distributed as follows.

## Material declaration

Material	OT-1000-1250 3 pole switch Weight (kg)	OT1600 3 pole switch Weight (kg)	OT1000-1250 pole Weight (kg)	OT1600 pole Weight (kg)	OT1000-1250-1600 mechanism Weight (kg)
Cu	6,00	7,15	1,997	2,379	0,010
PE	4,07	4,07	1,355	1,355	-
Fe	1,75	1,75	0,267	0,267	0,790
PA	1,28	1,28	0,164	0,164	0,789
Zn	0,95	0,95	0,001	0,001	0,949
St Fe	0,31	0,31	0,104	0,104	-
PC	0,23	0,23	0,056	0,056	0,061
Al	0,04	0,04	-	-	0,040
Ag	0,01	0,01	0,004	0,002	-
Rubber	0,001	0,001	-	-	-

## The total weight of the products

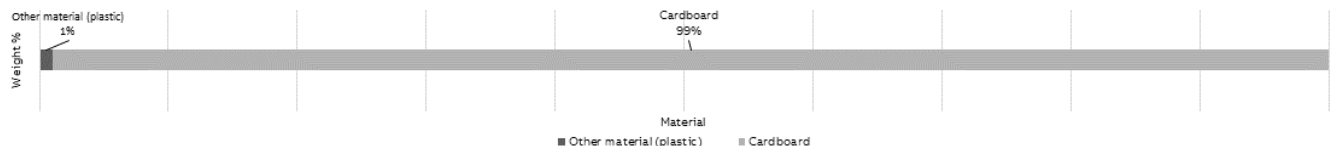
OT1000-1250E, 2 pole	10,2 Kg
OT1000-1250E, 3 pole	14,1 Kg
OT1000-1250E, 4 pole	18,0 Kg
OT1600E, 2 pole	10,9 Kg
OT1600E, 3 pole	15,2 Kg
OT1600E, 4 pole	19,5 Kg



## Packaging

The total weight for OT1000-1600E\_3 pole model packing material is 1,3 kg. The cardboard used in the packaging materials are recyclable.

## Packaging



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## Product use

### Energy

Power loss for OT1000E\_ is 19 W per pole, for OT1250E\_ is 29 W per pole and for OT1600E\_ is 48 W per pole.

Energy consumption during the use of OT1000-1600E\_ has been estimated assuming 10 years when operated 3650 hours per year (10 hours per day), load factor 70%.

### Energy consumption

OT1000E\_: 1456 kWh

OT1250E\_: 2223 kWh

OT1600E\_: 3679 kWh

### ABB Oy

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Find the address of your local sales organization on the ABB homepage:

[www.abb.com/contacts](http://www.abb.com/contacts)

> **Low Voltage Products and Systems**