

## Beryllium Benefits



Allows miniaturisation and reduced raw material utilisation

Increases product longevity



Increases product performance and reliability

Used in life-saving technologies



## No production of Beryllium in the EU

Only forms of Beryllium commercialised in the EU

Pure Beryllium

Beryllium containing alloys,  
i.e. copper beryllium

BeO ceramics

Unique properties of Beryllium

Transparent to X-rays  
Light weight and strong  
Thermal conduction

Best combination of  
mechanical strength, electrical  
and thermal conductivity as  
well as corrosion resistance

Excellent electrical insulator  
and thermal conductor

Key Applications

Mammography and medical  
imaging equipment  
Aerospace structures  
Defence

Electronic connectors  
Aircraft bushings and bearings  
Fire sprinkler systems

Laser surgery devices  
High tech electronics  
Defence

## Beryllium Life Cycle

Beryllium's life cycle consists of the following four stages :

I. Import

II. Processing

III. Use

IV. Recycle

### Beryllium is necessary in the Recycling of Magnesium and Aluminium Magnesium

(light metal alloys used by automobile industry)

Few ppm of beryllium are used as an additive to prevent molten magnesium and its alloys from catching fire during the recycling stage. Without beryllium there would be no production or recycling of these light weight metals in Europe.

# 04

### RECYCLE

Beryllium from recycling of articles containing beryllium alloys has no negative impact on the health of workers, environment or the purity of recycled copper

Workers in the recycling sector also protected by OELs (inside and outside EU) and good practices

# 01

### IMPORT

Import Be containing alloys (80% CuBe in strips & rods), pure Be and BeO into the EU (about 40 MT/year)

Beryllium Production located outside the EU

# 02

### PROCESSING

Processing of imported Be in articles (stamping, turning etc.)

Production scrap is collected by EU suppliers, shipped and recycled by producers

#### Workers Protected By:

I. EU binding occupational exposure limit and

II. Industry voluntary product stewardship at both processing phase and end-of-life management

# 03

### USE

Use of articles by consumers

No risk for consumers  
(Be in consumer products is max. 2% of Be in CuBe)