



## Zinc 64

### Description

Depleted Zinc in the form of sintered Zinc Oxide Pellets is used in boiling water reactors (BWR). Depleted Zinc in the form of Zinc Acetate is used in pressurized water reactors (PWR). The aim of using Depleted Zinc is to reduce corrosion in the primary water circuit in order to reduce occupational radiation exposure for NPP personnel (possible reduction of collective dose rate is approx. 50 %).

### Depleted Zinc-64 in the form of Zinc Oxide Pellets

#### Physical Properties:

|          |  |
|----------|--|
| Material | $^{64}\text{Zn}$ Depleted Zinc Oxide in the form of sintered pellets |
| Zn-64    | $^{64}\text{Zn} \leq 1,0 \text{ at\%}$                               |
| Density  | $> 4,77 \text{ g/cm}^3$  |
| Diameter | 10 mm + 1mm  |
| Length   | 10 mm + 1mm  |

#### Chemical Properties:

|        |                       |
|--------|-----------------------|
| Form   | ZnO                   |
| Purity | $> 99,8 \text{ wt\%}$ |

### Depleted Zinc-64 in the form of Zinc Acetate Dihydrate

#### Physical Properties:

|          |  |
|----------|--|
| Material | $^{64}\text{Zn}$ Depleted Zinc in form of Zinc Acetate |
| Zn-64    | $^{64}\text{Zn} \leq 1 \text{ at\%}$                   |



Particle Size

1 mm

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## Chemical Properties:

Form

$\text{Zn}(\text{CH}_3\text{CO}_2)_2(\text{H}_2\text{O})_2$

Purity

$\geq 99,8 \text{ wt}\%$