Zinc 64

^{64}Zn

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}Zn Depleted Zinc Oxide in the form of sintered pellets
Zn-64	$^{64}Zn \leq 1,0$ at%
Density	> 4,77 g/cm³
Diameter	10 mm + 1mm
Length	10 mm + 1mm

Chemical Properties:

Form	ZnO
Purity	> 99,8 wt%

Depleted Zinc-64 in the form of Zinc Acetate Dihydrate

Physical Properties:

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Material	^{64}Zn Depleted Zinc in form of Zinc Acetate
Zn-64	^{64}Zn ≤ 1 at%
Particle Size	1 mm

Chemical Properties:

Form	$Zn(CH_3CO_2)_2(H_2O)_2$
Purity	≥ 99,8 wt%

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