



COBALT 60 (Co-60)

INDUSTRIAL ISOTOPE DATASHEET

WHY COBALT 60?

Cobalt-60 is the preferred isotope for thick and dense material inspection. Ideal for heavy industry applications where maximum penetration is required.

- Thick weld inspection
- Pressure vessels
- Power generation
- Structural steel

KEY ADVANTAGES

- High penetration capability
- Long service life
- Reliable performance
- Reduced exposure time for thick materials



TECHNICAL SPECIFICATIONS

Half-life	5.27 years
Gamma Energy	1.17 & 1.33 MeV
Steel Thickness Range	40 – 200 mm
Exposure Rate Constant	13.2 R-cm ² /mCi-hr
Decay	Nickel-60

SHIELDING REFERENCE GUIDE

Material	Half Value Thickness
Lead	~12 mm
Steel	~21 mm
Concrete	~60 mm



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