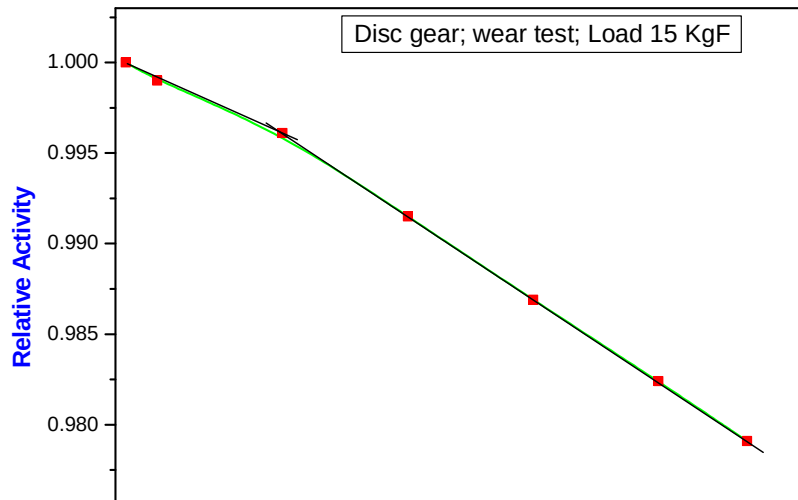


Development and Application of Thin Layer Activation (TLA) Technique for Wear and Corrosion Rate Measurement

This technique is established in March 05, 2016 and is being extensively used for various measurements, successfully.

Component	Dimensions	Irradiation Time (hr)
SS Plate	25 mm x 25 mm	8 h
SS Disc gear	Dia: 86 mm	8 h
SS Ball	Dia: 12.7 mm	9 h
Beam Parameters	Type: Proton, Energy: 13 MeV, Current: 200 nA , Beam size: 2 mm, Irradiation time: 9 h	



Nuclear Reaction	Cross-section (mb at MeV)	Half-life (days)	-Energy (KeV)
$^{56}\text{Fe}(p,x)^{56}\text{C}$	396 at 12.5	77.3	847 (100%)