

3 5/8" Compensated Neutron Tool

Product Reference: 050-FA100-0000 (10 Pin)

The Compensated Neutron Tool measures the hydrogen index of formations. Measurements are converted to porosity values, in combination with density tool measurements provide an indication of lithology and gas in zones of interest.

The tool contains a side loaded 15-20 Ci AmBe neutron source that bombards the formation with fast neutrons. These neutrons are slowed and then captured, primarily by hydrogen atoms in the formation. The slowed neutrons deflected back to the tool are counted by dual ruggedized, high temperature proportional He³ detectors.

Data transmission to surface is accomplished with the use of a ruggedized multiple line driver or optional digital telemetry which both encodes the data for transmission and multiplexes signals from other tools within the tool stack.



SPECIFICATIONS – 3 5/8" COMPENSATED NEUTRON TOOL

Diameter	3 5/8"	9.3 cm	Mechanical:	
Length	46"	1.17 m	Top Connection	10 or 17 pin GOI type
Weight	78 lb.	35 kg	Bottom Connection	10 or 17 pin GOI type
Operating Voltage	100 VDC			
Operating Current	35 mA. DC			
Limitations:				
Maximum Pressure	20,000 psi	137.8 MPa		
Maximum Temperature	325°F	162°C		

RELATED PRODUCTS

- 050-FA10-1700 3 5/8" Compensated Neutron Tool (17 pin)
- 035-B313-0000 Calibration tank for shop calibration
- SOU-AM241-0015 15Ci AmBe neutron source
- 035-AM241-0021 DOT certified transport/ storage container
- SOU-HTAMB-0025 Source handling tool
- SOU-AM241-0350 Source for field verifier
- 050-VER01-0000 CNL field verifier
- 035-AS00-021 Vertical make-up plate

Note: This tool can be tailored to fit several different mechanical source configurations in the customer's inventory.

At Probe, we design, manufacture and service specialized modular downhole tools and systems. Our tools are used in formation evaluation, well integrity assessment and well productivity determination across the global energy industry.

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