

2 1/2" Product Line

Compensated Neutron

The Compensated Neutron instrument works with an Americium Beryllium source and two detectors. The source emits high energy neutrons, which undergo scattering in the formation, lose energy and produce gamma rays. The thermal neutrons are measured by the two detectors in the tool. The tool can be run in both open and cased holes and in most types of mud. In order to minimize the borehole effects, the tool is run decentralized.

Specifications			
Diameter:	63.5 mm	(2.5")	Source Type: ²⁴¹ AmBe
Length:	2390 mm	(94.1")	Detector Type: ³ He
Weight:	30 kg	(66 lbs)	Number of Detectors: 2
Max. Temp:	175°C	(350°F)	Measure Point (from bottom):
Max. Pressure:	140 MPa	(20 000 psi)	CN: 1257 mm (49.5")
Telemetry required: yes			
Top Connector: yes			
Bottom Connector: yes			

Measuring Parameters

Measuring Range: 0 - 100 pu

Accuracy: ±1 pu (for 0-10 pu)
±7% of recorded value (above 10 pu)

Logging parameters			
Recommended		Recommended	
Min. Hole Diameter:	100 mm (3.9")	Logging Speed:	6 m/min (1200 ft/hr)
Max. Hole Diameter:	380 mm (15.0")		
Min. Casing ID:	100 mm (3.9")		

Displayed Standard Curves	
CN in pu	Uncorrected Porosity (1 pu = 1 %) in limestone matrix
CNCM in pu	CN Porosity, corrected for caliper, salinity, mud weight and matrix

Combinability

With all 2 1/2" open hole instruments and 3 3/8" open hole instruments

