

Brooks-Corey correlation

$$(1) \quad J_{cow}(s_w) = a (s_{wn})^{-1/\lambda}$$

where

$$s_{wn} = \frac{s_w - s_{wc}}{1 - s_{wc}} \text{ -- normalised water saturation,}$$

s_{wc} -- critical water saturation,

a, λ -- model parameters which are set for laboratory data on capillary pressure and/or on resistivity water saturation during [SHF](#).

Model parameter λ is related to the the size of the pore size distribution.

The most popular value is 2 but it can vary to smaller or higher values.

See also

[Petroleum Industry / Upstream / Subsurface E&P Disciplines / Petrophysics / Capillary pressure / Capillary pressure @model / Leverett J-function capillary pressure @model](#)