Rock Quality Indicator = RQI

(1) $$RQI = 0.0314 \sqrt{\frac{k}{\phi_e - \phi_0}}$$

where

k	absolute permeability to air, md
ϕ_e	effective porosity
ϕ_0	porosity cut-off

Unit = m

This value accounts for monotonous growth of permeability on porosity and the square root decreases the variability thus increasing linearity of correlation between RQI and porosity (usually normalised porosity, see Flow Zone Indicator (FZI)).

See also

Petroleum Industry / Upstream / Subsurface E&P Disciplines / Petrophysics

[Flow Zone Indicator (FZI)] [Absolute permeability @model]