

# Residual oil saturation to water sweep (sorw)

A value of **oil saturation**  $s_{orw}$  below which **oil** is not getting swept by **water**:

$$(1) \quad k_{row}(s_o < s_{orw}) = 0$$

It usually depends on **absolute permeability**  $k_a$  as:

$$(2) \quad s_{orw} = s_{orw,0} \cdot (1 + k_a/k_{a,sorw})^{-n_{sorw}}$$

## See also

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[Physics / Fluid Dynamics / Percolation](#)

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[ [Petrophysics](#) ] [ [Basic reservoir properties](#) ] [ [Wettability](#) ] [ [Permeability](#) ] [ [Absolute permeability](#) ] [ [Relative permeability](#) ] [ [Oil permeability](#) ] [ [Oil relative permeability](#) ] [ [Oil-water relative permeability \(krow\)](#) ]