



AD FALCON API Manual

Constant Permeability Model

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March 26, 2026

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1 Constant Permeability Model

1.1 Syntax

```
@Perm: Constant k_sat <k_sat>
```

In the Constant Permeability model the intrinsic permeability, k_{sat} , is a fixed value that does not vary with the void ratio. The model assumes that the relative permeability for water is constant and equal to 1, while the relative permeability for gas is 0. Thus, the model yields:

$$k_{rw} = 1.0 \quad (1)$$

$$k_{rg} = 0.0 \quad (2)$$

This model is suitable for cases where permeability is assumed independent of changes in the void ratio.