separably algebraically closed field

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Defines	separably algebraically closed

A field K is called *separably algebraically closed* if every separable element of the algebraic closure of K belongs to K.

In the case when K has characteristic 0, it is separably algebraically closed if and only if it is algebraically closed.

If K has positive characteristic p, K is separably algebraically closed if and only if its algebraic closure is a purely inseparable extension of K.