A $k$-variety is said to be rational if its function field is purely transcendental over $k$. The first example of a non-rational adjoint $k$-group $\text{PSO}(q)$ was given by Merkurjev as a consequence of his computations of $R$-equivalence classes of adjoint classical groups. The quadratic form in question has non-trivial discriminant which property is used crucially in the proof. Gille provided the first example of a quadratic form of trivial discriminant whose associated adjoint group is non-rational. In this talk we give a recursive construction to produce examples of $k_n$-quadratic forms $q_n$ in the $n$-th power of the fundamental ideal in the Witt ring whose corresponding adjoint groups are not (stably) rational. (Received January 15, 2014)