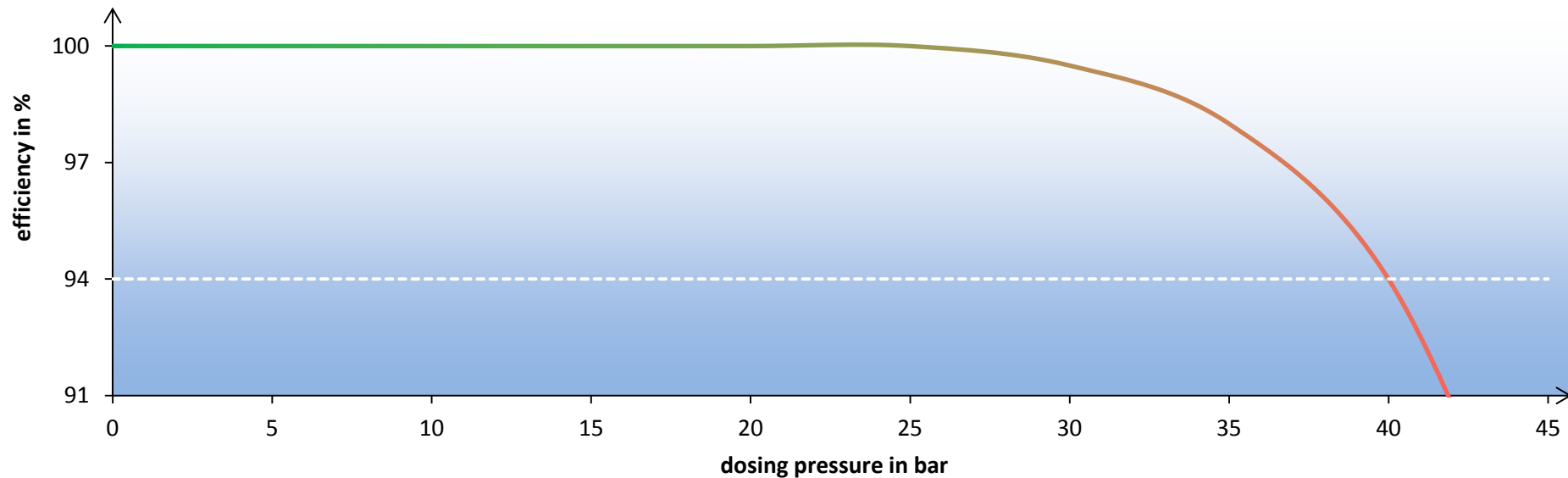




Pump efficiency depending on the dosing pressure

The following graph illustrates how the dosed volume reacts in accordance with resulting dosing pressure. Here it became apparent that the dosed volume reacts with the preeflow endless piston principle up to limit of about 30 bar dosing pressure absolutely linear and without any loss.

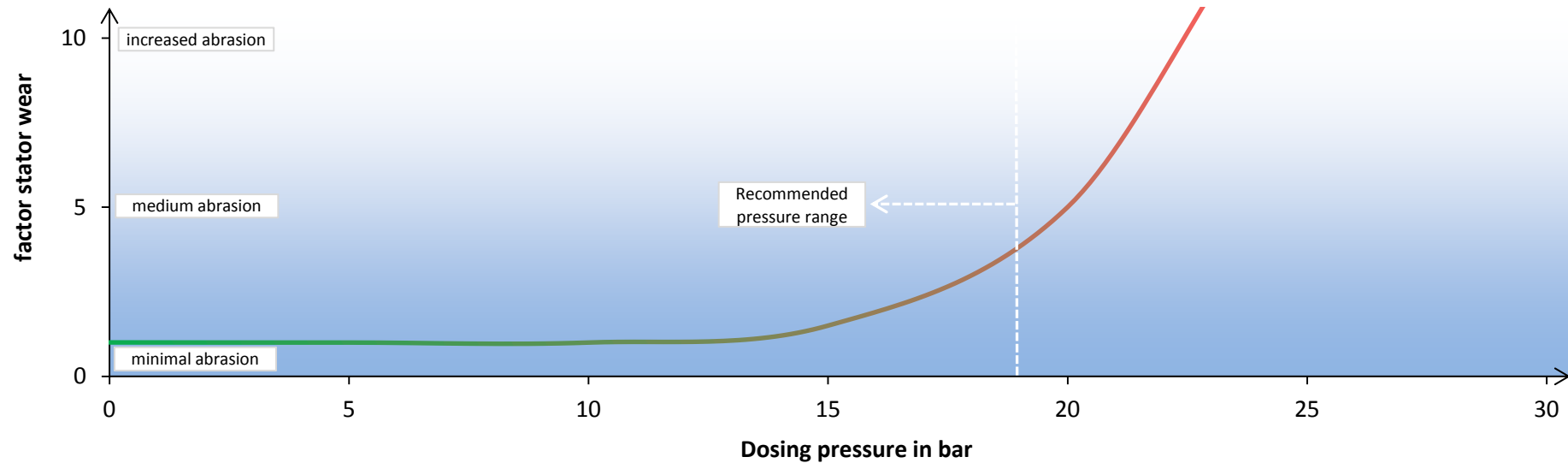


* depending of the medium

Stator wear

depending on the dosing pressure

The following graph illustrates how the stator wear reacts in accordance with resulting dosing pressure. Here it became apparent that the stator wear reacts exponentially to the dosing pressure, i.e. with increasing dosing pressure the stator wear is rising.



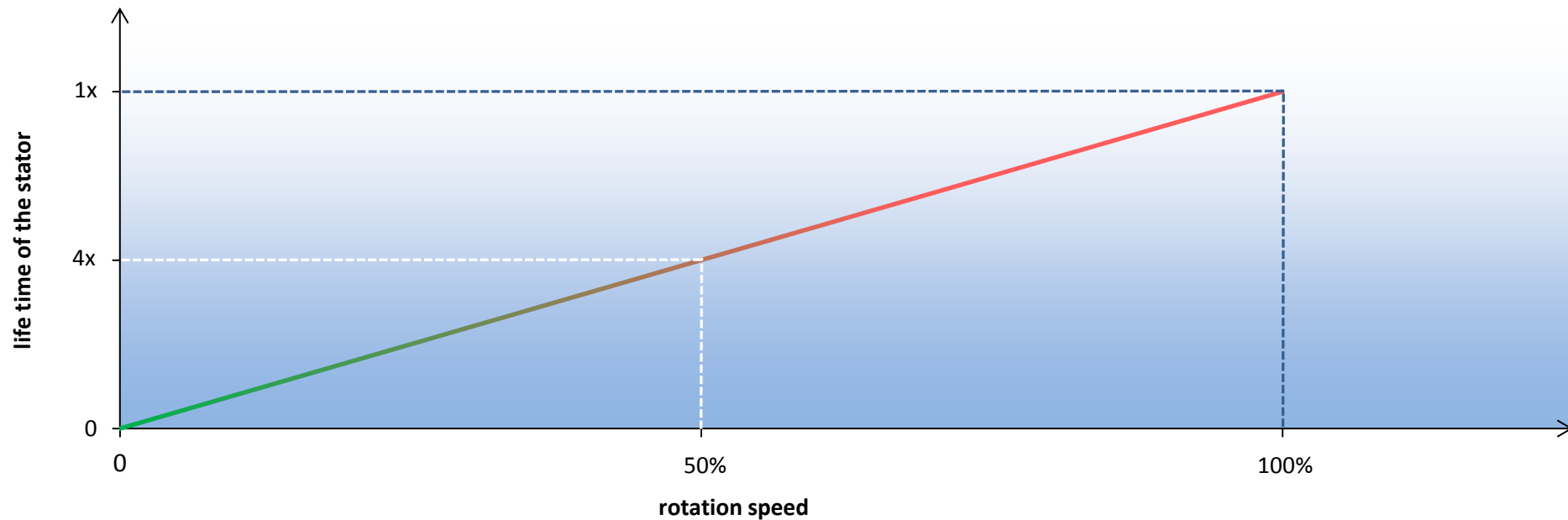
* depending of the medium

Stator life

depending of the rotation speed

The following graph illustrates how the stator life reacts in accordance with the speed (flow rate) of the dispenser. Here it became apparent that the stator life of the stator is increased by 4-fold at halve the speed.

Rule of thumb: *halving the speed quadruples the stator life.*



* depending of the medium