



● = Measurement result
 † = Measurement uncertainty, k=2

IA	In Agreement	The measurement is within limits, also when measurement uncertainty multiplied by coverage factor k=2 is included. Coverage factor k=2 equals, with a normal distribution, approximately 95% statistically certainty. This gives a probability of False Accept (PFA) of less than 2,5%.
PA	Possible Agreement	The measurement is within limits, but when measurement uncertainty multiplied by coverage factor k=2 is included the result could be outside tolerance. Coverage factor k=2 equals, with a normal distribution, approximately 95% statistically certainty. This gives a probability of False Accept (PFA) of less than 50%.
PF	Possible Fail	The measurement is outside limits, but when measurement uncertainty multiplied by coverage factor k=2 is included the result could be within tolerance. Coverage factor k=2 equals, with a normal distribution, approximately 95% statistically certainty. This gives a probability of False Reject (PFR) of less than 50%.
F	Fail	The measurement is outside limits, also when measurement uncertainty multiplied by coverage factor k=2 is included. Coverage factor k=2 equals, with a normal distribution, approximately 95% statistically certainty. This gives a probability of False Reject (PFR) of less than 2,5%.

Decision rule:

Measurement result is considered in acceptance of Grade when measurement result is IA or PA.
 Measurement result is considered fail of Grade when measurement result is PF or F.

Measurements that are IA are marked *Accepted* or *Acc.*
 Measurements that are PA are marked *Accepted** or *Acc.**
 Measurements that are PF or F are marked *Not Accepted* or *Failed*.

Exception:

When a standard test method already has a built-in guard band into the limit.
 Any further guard bending to limit risk is not necessary. In this case measurements that are IA and PA are marked *Accepted* or *Acc.*