

PROCEDURE FOR TESTING THE STRENGTH OF REAGENTS

MAXICHECK™ AA

TESTING OF

ACID ACCEPTANCE

DOWPER™ MC

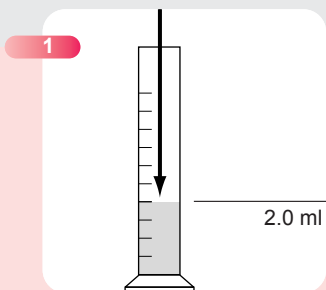
DOWPER™ N

- 1** Measure 2.0 ml of the acid solution into the glass cylinder.
- 2** Shake while continuously adding the sodium hydroxide solution until the colour changes from yellow to bluish-green.
- 3** For reagents in satisfactory condition, the colour change should occur between 8.5 and 8.9 ml.

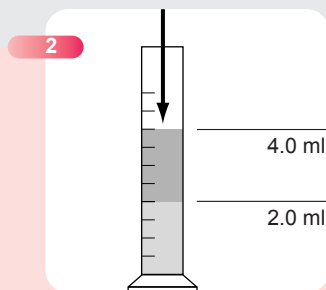
Note: Always close reagent bottles after use.

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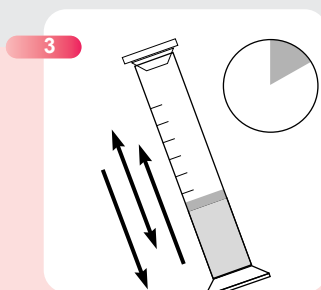
**PROTECT YOUR SOLVENT AGAINST ACIDIFICATION
WITH THE ACID ACCEPTANCE TEST KIT**



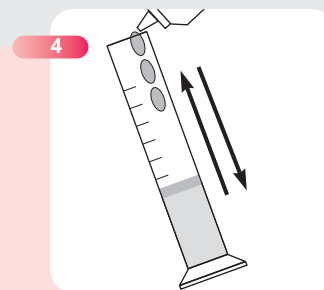
1 Fill with solvent sample to the 2.0 ml mark.



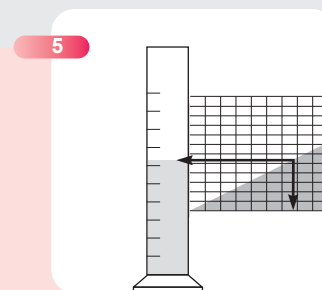
2 Add hydrochloric acid solution to the 4.0 ml mark from the MAXICHECK™ AA test kit .



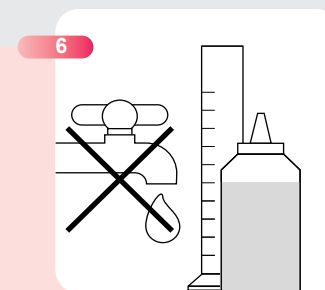
3 Affix stopper and ensure the two liquids are well mixed. Wait 10 minutes.



4 Add sodium hydroxide solution in small portions. Affix stopper and shake slightly. Continue adding until the colour has turned from yellow to bluish-green.



5 Take the total volume and determine the acid acceptance value from the graph.



6 Test cylinder should be rinsed with virgin solvent and thoroughly dried after each test. **Do not rinse with water.**

The test described in this leaflet is designed to determine the acid acceptance of the solvent.

Under certain conditions any chlorinated solvent will be acidified. To prevent acidification, DOWPER™ MC and DOWPER™ N are pH stabilised and contain a neutral acid acceptor for added protection.

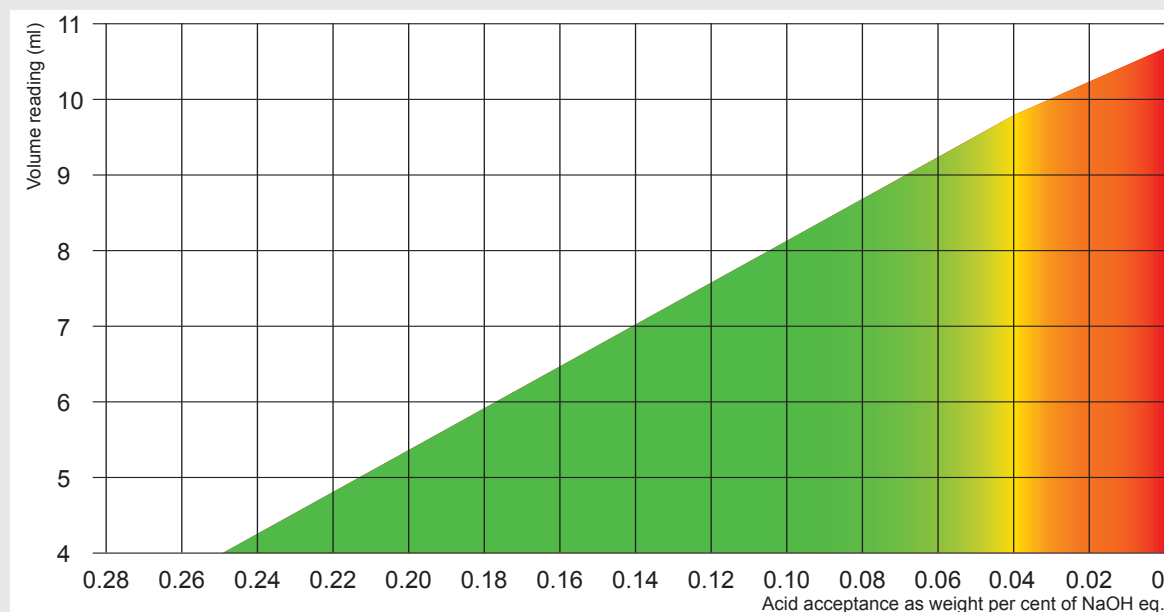
Over a period of time the stabilisers may be depleted. For this reason it is recommended that the condition of the solvent should be tested regularly. Two tests are available for DOWPER™ MC and DOWPER™ N: one to determine the pH-value/alkalinity and another one to determine the acid acceptance. To ensure that adequate acid acceptor is present, the following simple method of testing has been developed.

In normal solvent use, acid acceptance will decrease. Values above 0.04 % NaOH eq. are within normal working range.

Values between 0.02 – 0.04 % NaOH eq. indicate the acid acceptance is in the lower working range.

At acid acceptance values of less than 0.02 % NaOH eq. the condition of the solvent is critical. Restabilisation with MAXISTAB™ is strongly recommended.

In case the acid acceptance does not increase after the restabilisation and /or cannot be maintained, call SAFECHEM Europe GmbH (phone +49 211 4389-300). Further information on the use of MAXISTAB™ stabiliser concentrates may be obtained from your local Dow representative or from SAFECHEM Europe GmbH (phone +49 211 4389-300, fax -389) or from the Dow Customer Information Group (toll-free number: +800 36 94 63 67).



- Acid acceptance in the normal working range
- Acid acceptance in the lower working range
- Acid acceptance borderline

Acid acceptance of factory-fresh DOWPER™ MC and DOWPER™ N min. 0.10 % NaOH eq.

Dosage DOWPER™ MC: The addition of 1 litre of MAXISTAB™ DJ-1N to 100 litres of solvent increases the acid acceptance by approx. 0.11 % wt of NaOH eq.

Dosage DOWPER™ N: The addition of 1 litre of MAXISTAB™ DL-3 to 100 litres of solvent increases the acid acceptance by approx. 0.11 % wt of NaOH eq.