Reference Colour Scale

LT-A0047 | Visual colour comparison of fine aggregate test liquid

Five reference colours • Plastic holder • No electrical power required



5 colours

STANDARD REFERENCE LEVELS

Visual check

COMPARISON WITH TEST LIQUID

EN 1744-1 • ASTM C40/C40M • Organic impurities screening in fine aggregate

LT-A0047

Photograph and Product Components

Reference colours, protective holder, test bottles and level markings

LT-A0047 compares the colour of prepared fine aggregate test liquid with reference colours. The scale provides preliminary information about potential organic contamination. Test bottles are available under separate product codes.

REFERENCE COLOURS

Five colour levels allow the test liquid to be assessed as lighter or darker than the reference.

TEST BOTTLES

Used to prepare and hold the sample and solution according to the test method.



PROTECTIVE HOLDER

A plastic holder helps keep the references arranged for visual examination.

LEVEL MARKINGS

Markings on the bottles assist level checks during specimen preparation.



Reference colours and protective scale holder



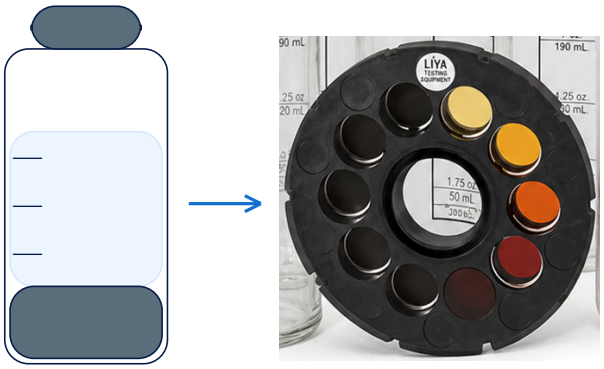
Test bottles and level markings

LT-A0047

Colour Comparison of the Test Liquid

Prepare sample • Add solution • Allow to stand • Compare with reference

TEST BOTTLE + REFERENCE SCALE



VISUAL COMPARISON

ASSESS AGAINST THE METHOD REFERENCE

OBSERVATION: LIQUID ABOVE THE AGGREGATE

RESULT: COLOUR RELATIVE TO THE REFERENCE

OPERATING PRINCIPLE • REPRESENTATIVE COMPARISON LAYOUT • NOT TO SCALE

Prepare Sample and Solution

Place fine aggregate in a suitable bottle. Add sodium hydroxide solution as prescribed by the method.

Mix and Allow to Stand

Close the bottle and mix the sample. Complete the standing period specified in the applicable method.

Compare with the Reference

Compare the liquid above the aggregate with the reference colour. Record the result and specimen identity.

The test liquid colour provides information about potentially harmful organic impurities in fine aggregate. Compare under the lighting, preparation and standing conditions required by the method. Record the result as a preliminary visual assessment.

Organic Impurities in Fine Aggregate

Natural sand and other fine aggregates may contain organic matter. Colour comparison helps identify whether samples intended for concrete need further investigation.

EN 1744-1 covers aggregate chemical tests. ASTM C40/C40M covers approximate assessment of organic impurities in fine aggregate. Apply the specimen and solution conditions of each method separately.

Interpreting a Darker Colour

Liquid darker than the method reference indicates that further investigation of possible harmful organic impurities is needed. This observation alone is not a final acceptance or rejection decision.

ASTM C40/C40M advises testing darker samples according to ASTM C87/C87M to assess the effect on mortar strength. Evaluate the results with the applicable specification.

Technical Specifications and Product C

LT-A0047 • Scale, test bottle and chemical reagent options

Product Code	Product	Feature / Use
LT-A0047	Organic impurities scale	5 standard reference colours
LT-A0047/1	Colour scale bottle	Test preparation
LT-A0047/2	Colour scale bottle	Test preparation
LT-G0717	Sodium hydroxide	Reagent for the test solution

Application Feature	Value / Description
Sample Type	Fine aggregate / sand
Primary Function	Preliminary organic impurities assessment
Comparison Method	Test liquid against reference colour
Scale Protection	Plastic holder
Operation	Manual / no electrical power required
Related Test Methods	EN 1744-1 / ASTM C40/C40M

Match Preparation and Standing Time to the Method

Select sample quantity, solution preparation and standing time by the method. Choose scale, bottle and reagent codes for the application; investigate darker results with additional tests.

From Fine Aggregate to Colour Screening

01
Prepare
Place fine aggregate in a suitable bottle.

02
Add Solution
Add the prescribed solution and mix.

03
Stand
Complete the specified standing period.

04
Compare
Compare liquid colour and record the result.

Product Page | liyatest.com.tr/en/urun/reference-colour-scale/