



# COLOUR STANDARDS

## CERTIFIED REFERENCE MATERIALS

Paragon Scientific brings over 20 years of manufacturing experience to the production process of its new Colour Standards. These standards are produced with the highest laboratory/reference material accreditations through UKAS to ISO 17025; ISO 17034 and ISO 9001 quality systems. With our new Colour Standards we strive to offer our customers a comprehensive range of certified reference materials for colour testing in industrial and environmental markets.

Our wide range of colour standards can easily be used for the calibration and verification of colour measuring instruments. Our 17034 accredited CRMS are offered for four different colour scales: ASTM Colour Scale (ASTM D1500 / D6045/ E308); Gardner Colour Scale (ASTM D1544 / D6166 / E308); Saybolt Colour Scale (ASTM D156 / D6045 / E308) and the Platinum-Cobalt(Pt-Co) /Hazen/APHA scale. We also customize according to your colour scale standard needs, contact us for assistance.

### ASTM Colour Standards

- ASTM Colour provides key and early indicators of a product's quality and even of degradation, especially within Petrochemical testing laboratories.
- The colour scale ranges from 0.5, a pale straw colour, to 8.0, a deep red, in a total of sixteen steps (in increments of 0.5).
- Our five ASTM Colour standards cover the common testing points in this range.

Paragon Scientific - ASTM Colour Standards		
Description	Size	Product Number
ASTM <0.5, Colour	500 mL	ALK-ASTM05
ASTM 1, Colour	500 mL	ALK-ASTM10
ASTM 3, Colour	500 mL	ALK-ASTM30
ASTM 5, Colour	500 mL	ALK-ASTM50
ASTM 7, Colour	500 mL	ALK-ASTM70

## Gardner Colour Standards

- Gardner Color scale is a 1-to-18 point scale which describes the yellowness of transparent liquids such as resins, lacquers and edible oils .
- This scale ranges from 1 to 18, in whole number increments. A Gardner value of 1 is pale yellow, while a value of 18 is dark brown.
- Paragon Scientific is offering three standards for the Gardner scale, in the most popular values.

Paragon Scientific - Gardner Colour Standards		
Description	Size	Product Number
Gardner Value 2, Colour	500 mL	ALK-GARD02
Gardner Value 5, Colour	500 mL	ALK-GARD05
Gardner Value 8, Colour	500 mL	ALK-GARD08

## Saybolt Colour Standards

- The Saybolt colour Scale was designed for rating the colour of refined petroleum products. Colour analysis with this scale can indicate product quality as well as whether it has been contaminated or degraded during storage.
- The Saybolt scale ranges from +30 (water white) to -16 a yellowish shade, in a total of forty-six steps (1.0 increments).
- Paragon Scientific is offering 4 CRMS for the Saybolt scale across this range.
- The Saybolt scale overlaps with the first 3 units of the ASTM Scale (<0.5, 1, 1.5)

Paragon Scientific - Saybolt Colour Standards		
Description	Size	Product Number
Saybolt -10, Colour	500 mL	ALK-SAYB02
Saybolt 0, Colour	500 mL	ALK-SAYB06
Saybolt +12, Colour	500 mL	ALK-SAYB07
Saybolt +25, Colour	500 mL	ALK-SAYB08

## Platinum Cobalt Colour Standards

- The Pt-Co Scale was developed to test levels of pollution in waste water. It has since expanded to a common method of comparison of the intensity of yellow-tinted samples such as those in oil testing laboratories.
- The colour scale ranges from 0, a "water white" colour, to 500, a dark brown/yellowish shade, in a total of five hundred steps (1.0 increments).
- Paragon Scientific is offering 8 CRMS across this scale for use in colour testing.

Paragon Scientific - Saybolt Colour Standards		
Description	Size	Product Number
Pt-Co/Hazen/APHA (Nominal: 0), Colour	500 mL	ALK-PTCO000
Pt-Co/Hazen/APHA (Nominal: 5), Colour	500 mL	ALK-PTCO005
Pt-Co/Hazen/APHA (Nominal: 10), Colour	500 mL	ALK-PTCO010
Pt-Co/Hazen/APHA (Nominal: 15), Colour	500 mL	ALK-PTCO015
Pt-Co/Hazen/APHA (Nominal: 30), Colour	500 mL	ALK-PTCO030
Pt-Co/Hazen/APHA (Nominal: 50), Colour	500 mL	ALK-PTCO050
Pt-Co/Hazen/APHA (Nominal: 100), Colour	500 mL	ALK-PTCO100
Pt-Co/Hazen/APHA (Nominal: 500), Colour	500 mL	ALK-PTCO500