

# Lovibond® Colour Measurement

## Tintometer® Group



### Comparator 2000

#### Flexible System for Visual Colour Grading

Fast, economical & portable visual matching

# Lovibond® Comparator System 2000

## A flexible, modular system for Visual Colour Grading

Using a suitable Comparator instrument, the sample is visually matched against calibrated, colour stable glass standards in test discs. The Comparator 2000 is a short path length instrument (up to 40 mm) for visually matching samples with relatively dark colours. Nessleriser systems are longer path length instruments for matching a column of sample in a glass cylinder of appropriate path length. They are designed for measuring unsaturated samples that are below the sensitivity of the Comparator 2000. A selection of Lovibond® colour grading discs for use with the Comparator System 2000 is shown below;

Colour Scale	Disc	Range Covered	Instrument	Accessories Required
ASTM Color	4/81	1, 2, 3, 3.5, 4, 4.5, 5 units <sup>1)</sup>	Comparator 2000+	33 mm cell W680/OG/33
	4/82	0.5, 1, 2, 3, 3.5, 4, 4.5 units <sup>1)</sup>	Comparator 2000+	33 mm cell W680/OG/33
Dyed Aviation Gasoline	4/78	Blue, Green, Brown, Purple (min and max of each)	Nessleriser 2250	200 mm cylinders, DB421
	4/79	Red (min and max)	Nessleriser 2250	200 mm cylinders, DB421
Gardner Colour	4/30AS	1, 2, 3, 4, 5, 6, 7, 8, 9 units	Comparator 2000+	10 mm cell W680/OG/10
	4/30BS	10, 11, 12, 13, 14, 15, 16, 17, 18 units	Comparator 2000+	10 mm cell W680/OG/10
Pt-Co/Hazen/APHA	4/28	50, 75, 100, 150, 200, 250, 300, 400, 500 mg Pt/l	Comparator 2000+	40 mm cell W680/OG/40
	4/28A	200, 225, 250, 300, 350, 400, 450, 500 mg Pt/l	Comparator 2000+	40 mm cell W680/OG/40
	NSH	10, 20, 30, 40, 50, 60, 70, 80, 90 mg Pt/l	Nessleriser 2150	113 mm cylinders AF 306/P
	NSB	70, 85, 100, 125, 150, 175, 200, 225, 250 mg Pt/l	Nessleriser 2150	113 mm cylinders AF 306/P
	NSX	50, 60, 70, 80, 100, 150, 200, 250, 300 mg Pt/l	Nessleriser 2150	113 mm cylinders AF 306/P
	CAA	0, 2.5, 5.0, 7.5, 10, 15, 20, 25, 30 mg Pt/l	Nessleriser 2250	250 mm cylinders DB 420
	CBB	30, 35, 40, 45, 50, 55, 60, 65, 70 mg Pt/l	Nessleriser 2250	250 mm cylinders DB 420
	1209/1	0, 2.5, 5.0, 7.5, 10, 15, 20, 25, 30 mg Pt/l	Nessleriser 1209 <sup>2)</sup>	100 ml cylinders DB 423
	1209/2	30, 35, 40, 45, 50, 55, 60, 65, 70 mg Pt/l	Nessleriser 1209 <sup>2)</sup>	100 ml cylinders DB 423

### Optional Items for Individual Applications

Daylight 2000 Lighting Unit	A standardised benchtop light source to guarantee constant lighting conditions for accurate colour grading, particularly when the sample is very pale in colour.
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<sup>1)</sup> Restricted range used by UK MoD for F76 type diesel fuel.

<sup>2)</sup> Conforms to the path length requirements specified in ASTM D 1209

### Test kits based on the Comparator System 2000

Available for the most commonly used colour scales and colorimetric tests, these kits are a convenient means of ordering the complete range of equipment required.



Type	Colour Scale	Range	Apparatus Included
AF 334	Gardner Colour	1 - 18 units	Lovibond® Comparator 2000+ with Daylight 2000 Lighting Unit, Gardner discs 4/30 AS & 4/30 BS, W680/OG/10 mm path length fused glass cell
AF 329	Pt-Co/Hazen/APHA Colour	0 - 250 mg Pt/l	Nessleriser 2150 with Daylight 2000 Lighting Unit and Nessler cylinders, Nessleriser 2250 upgrade with Nessler cylinders, Pt-Co/Hazen discs CAA, CAB & NSB, stand for using Nessleriser with natural lighting
AF 325	Pt-Co/Hazen/APHA Colour	10 - 250 mg Pt/l	Nessleriser 2150 with Daylight 2000 Lighting Unit and Nessler cylinders, Pt-Co/Hazen discs NSH & NSB, stand for using Nessleriser with natural lighting
AF 328	Pt-Co/Hazen/APHA Colour, Low Range	0 - 70 mg Pt/l	Nessleriser 2250 with Daylight 2000 Lighting Unit and Nessler cylinders, Pt-Co/Hazen discs CAA & CAB, stand for using Nessleriser with natural lighting
AF 327	Pt-Co/Hazen/APHA Colour, Low Range, (ASTM D 1209)	0 - 70 mg Pt/l	Nessleriser 1209 with the Daylight 2000 lighting unit and 100 ml (288 mm) Nessler cylinders, Pt-Co/Hazen discs 1209/1 & 1209/2, deionised water

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