

Technical Information

Ball Pen Ink – Low Viscosity Range

● General Information

Multichem ball pen inks are available in three ranges – Standard, Low Viscosity and Ultra Low Viscosity. We also offer a choice of three grades – High Quality, Medium and Economy.

- Suitable for use in plastic & metal refills
- Compatible with tungsten carbide and stainless steel balls
- Suitable for ball size up to 1mm
- For use with stainless steel, nickel silver and brass housings
- Clear drain feature*
- Guaranteed shelf life of at least 2 years in PP tubes

*Variations in polymer can affect clear drain feature

We recommend that inks are trialled with the refill tubes, point construction and settings that are intended to be used. Adjustments in viscosity and rubber-elastic content are possible to suit components.

● Storage

Ball pen inks should be stored at temperatures not exceeding 30°C. Sub-zero temperatures should also be avoided. Shelf-life and performance may be affected if stored outside recommended conditions.

● Available Colours

Standard	
● Black	● Blue
● Red	● Green

● Typical Physical Properties

Typical Physical Properties

High Quality Grade

Ink	ISO 12757 Compliance		Clear Drain	Viscosity (20°C) (cP) +/- 1000	Tropicalised	pH +/- 0.5	Light Fastness	Starting
	Part 1	Part 2						
● LV HQ Black 1	Yes	Yes	Yes	9500	Yes	6.6	Good	Excellent
● LV HQ Blue 1	Yes	Yes	Yes	9000	Yes	6.9	Good	Excellent
● LV HQ Red 1	Yes	Yes	Yes	14500	Yes	6.5	Good	Excellent

Medium Grade

Ink	ISO 12757 Compliance		Clear Drain	Viscosity (20°C) (cP) +/- 1000	Tropicalised	pH +/- 0.5	Light Fastness	Starting
	Part 1	Part 2						
● LVM Black 1	Yes	Yes	Yes	9500	Yes	7.5	Good	Excellent
● LVM Blue 1	Yes	Yes	Yes	11250	Yes	6.8	Fair	Excellent
● LVM Blue 2	Yes	Yes	Yes	11500	Yes	6.7	Fair	Excellent
● LVM Red 1	Yes	Yes	Yes	11800	Yes	6.6	Good	Excellent
● LVM Green 1	Yes	Yes	Yes	9500	Yes	6.6	Good	Excellent

Economy Grade

Ink	ISO 12757 Compliance		Clear Drain	Viscosity (20°C) (cP) +/- 1000	Tropicalised	pH +/- 0.5	Light Fastness	Starting
	Part 1	Part 2						
● LVE Black 1	**	**	Yes	16500	Yes	6.7	Fair	Excellent
● LVE Blue 1	**	**	Yes	23750	Yes	6.6	Fair	Excellent
● LVE Red 1	**	**	Yes	23500	Yes	6.5	Fair	Excellent

** Trials with specific points and inks recommended as performance differences will affect results

● Approvals

US	European
ASTM D-4236	EN71-3:1994