

Technical Information

Premium Dry Erase Ink – WB900P

● General Information

Setting new standards for long-term erasure performance, WB900P is a cap-off formulation offering good all round features.

- Unprecedented long-term erasure from a wide range of surfaces*
- Leaves minimal residue after erasure
- Works on budget boards including reconditioned PVC
- Fast drying for no smear erasure (write on/wipe off)
- Cap-off protection
- Safe for children's play kits and school hand-held boards
- Xylene, toluene and benzene free

Suitable for most types of dry erase surfaces.

**Erases after 6 months on a coated steel whiteboard*

● Available Colours

Standard		Special	
● Black A	● Yellow F	● Lavender H	● Lemon Grass Y
● Blue B	● Brown G	● Turquoise R	● Ruby Red CS
● Red C	● Emerald J	● Purple T	● Golden Orange EF
● Green D	● Scarlet L	● Violet V	● Mandarin Orange EK
● Orange E	● Victoria Blue P	● Rose Pink X	● Lime Green YQ

● Typical Physical Properties

Ink	Viscosity (20°C) (cP)	Density (20°C) (g.cm ⁻³)	Surface Tension (mNm/m)	pH
● Black A	7.82	0.83	27	8.50
● Victoria Blue P	9.00	0.83	27	7.57
● Red C	8.80	0.83	27	7.30
● Scarlet L	9.20	0.83	27	6.88
● Green D	10.46	0.83	27	7.50
● Emerald J	10.10	0.83	27	7.30

cP = centipoise

g.cm⁻³ = grams per cubic centimetre

mNm/m = milli Newton metre per metre

● **Short Term Erasure (at Room Temperature on Coated Steel)**

Ink	Light	Medium	Heavy	Repeat
● Black A	5	5	5	5
● Victoria P	5	5	5	5
● Red C	5	5	5	5
● Scarlet L	5	5	5	5
● Green D	5	5	5	5
● Emerald J	5	5	5	5

5 = Excellent

4 = Very good

3 = Good

2 = Poor

1 = Very Poor

0 = Failure

Test Method Summary – The erasure is assessed with varying degrees of pressure applied to the board eraser (from a light to a heavy pressure). Also the ‘repeat erasure’ is evaluated (the lines are written onto the board, erased and then written over repeatedly) to observe for any smearing or residue

● **Accelerated Erasure (at 50°C on Coated Steel)**

Ink	24 hrs	48 hrs	5 days	7 days
● Black A	5	5	5	5
● Victoria P	5	5	5	5
● Red C	5	5	5	5
● Scarlet L	5	5	5	5
● Green D	5	5	5	5
● Emerald J	5	5	5	5

5 = Excellent

4 = Very good

3 = Good

2 = Poor

1 = Very Poor

0 = Failure

Test Method Summary – The whiteboard is stored at 50°C and the erasure is assessed regularly with varying degrees of pressure applied to the board eraser (from a light to a heavy pressure)

● **Typical Cap-off Performance (23°C, 50% Relative Humidity)**

Polyester Chisel tip

Ink	1 hour	18 hours	24 hours	44 hours	48 hours	72 hours
● Black A	●	●	●	●	●	●
● Victoria P	●	●	●	●	●	●
● Red C	●	●	●	●	●	●
● Scarlet L	●	●	●	●	●	●
● Green D	●	●	●	●	●	●
● Emerald J	●	●	●	●	●	●

● = writing normally

● = marker drying out

● = not writable

Test Method Summary – cap-off is tested to ISO 554 (23°C / 50% RH); the writing performance of the markers is assessed daily until they are not writable

● Horizontal Marker Stability (Room Temperature)

Ink	7 days	14 days	21 days	28 days
● Black A	5	5	5	5
● Victoria P	5	5	5	5
● Red C	5	5	5	5
● Scarlet L	5	5	5	5
● Green D	5	5	5	5
● Emerald J	5	5	5	5

● Nib Up Marker Stability (Room Temperature)

Ink	7 days	14 days	21 days	28 days
● Black A	5	5	5	5
● Victoria P	5	5	5	5
● Red C	5	5	5	5
● Scarlet L	5	5	5	5
● Green D	5	5	5	5
● Emerald J	5	5	5	5

● Nib Down Marker Stability (Room Temperature)

Ink	7 days	14 days	21 days	28 days
● Black A	3	3	3	3
● Victoria P	3	3	3	3
● Red C	3	3	3	3
● Scarlet L	3	3	3	3
● Green D	3	3	3	3
● Emerald J	3	3	3	3

5 = Excellent

4 = Very good

3 = Good

2 = Poor

1 = Very Poor

0 = Failure

Test Method Summary –markers are filled to their optimum ink capacity, placed nib down for one hour (to allow the nibs to fully wet out) and are then stored for 24 hours in the horizontal orientation before proceeding with the test. The markers are then oriented in the required test position (horizontal, nib up or nib down) to assess ‘shelf’ stability and are assessed for writing performance at regular intervals

● **Approvals**

US	European
ASTM D-4236	EN71-9:2005
16 CFR 1500.3 (max reservoir capacity is 20ml)	EN71-3:1994
TSCA	TRA
Proposition 65	Annex XVII EU Regulation 1907/2006 (Phthalates)
CPSIA Total Lead in Substrates	
CPSIA Total Phthalates Content	

NB: our inks are suitable for use in marker pens intended for children of 3 years and above, however it is the pen manufacturer's responsibility to establish the overall safety and fitness for purpose of the product incorporating Multichem inks.

Marker Storage Advice

For optimum performance, markers should ideally be stored in the horizontal orientation and should be capped securely.

Component Selection Advice

Component	Details
Nib	Polyester or acrylic (high porosity)
Reservoir	Polyester (high porosity) with polypropylene wrapping
Barrel	Polypropylene (PP)
Head/Tail Caps	Polypropylene (PP)