



RE-DEFINING HORIZONS



AN ISO 9001 : 2008
AN ISO 14001 : 2004
CERTIFIED GROUP

F/OPT GRADE

F/OPT GRADE' is a chlorinated paraffin based on a refined C9-C13 paraffin. It is a versatile and low colour grade used in a number of industries and applications ranging from use as a secondary plasticiser and flame retardant additive in PVC to use in paints, sealants and adhesives.

Further information may be obtained from the website 'www.shiva-group.com'.

F/OPT GRADE' is not classified as hazardous for transport or use and is available in HmHDPE/STEEL drums of 220-275 kgs nett weight or in bulk isotainers.

TECHNICAL DATA SHEET OF F/OPT GRADE BASED CP PLASTICISER

GRADE	<u>F/OPT 38</u>	<u>F/OPT 40</u>	<u>F/OPT 42</u>	<u>F/OPT 45</u>	<u>F/OPT 48</u>	<u>F/OPT 50</u>	<u>F/OPT 52</u>	<u>F/OPT 55</u>	<u>F/OPT 58</u>	<u>F/OPT 60</u>	<u>F/OPT 62</u>	<u>F/OPT 65</u>	<u>F/OPT 68</u>	<u>F/OPT 70</u>	<u>F/OPT 72</u>
SP.GVT @ 25 DEGREES CELCIUS	1170	1200	1220	1250	1280	1300	1320	1350	1380	1400	1420	1450	1480	1500	1520
COLOUR HAZEN (Hu)	10	10	10	10	10	10	15	15	20	20	55	60	65	80	80
CHLORNE CONTENT (%W/W)	45%	49%	49.5%	50%	52%	53%	54%	58%	62%	64%	65%	66.5%	68%	70%	71%
VISCOSITY (30 DEG) POISE (BROOKFIELD)	3	6	8	9	11	13	15	15	35	45	35	45	65	125	150
FREE MINERAL ACIDITY	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
FREE CHLORINE	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
VOLATILE LOSS (130 DEG/3 HRS) %	0.40 MAX	0.40 MAX	0.40 MAX	0.40 MAX	0.40 MAX	0.25 MAX	0.35 MAX	0.35 MAX	0.30 MAX	0.30 MAX	0.35 MAX	0.25 MAX	0.25 MAX	0.25 MAX	0.25 MAX
HEAT STABILITY 30 DEG/30 MIN)	GOLDEN YELLOW	GOLDEN YELLOW	GOLDEN YELLOW	GOLDEN YELLOW	GOLDEN YELLOW	GOLDEN YELLOW	GOLDEN YELLOW	GOLDEN YELLOW	GOLDEN YELLOW	GOLDEN YELLOW	GOLDEN YELLOW	GOLDEN YELLOW	GOLDEN YELLOW	GOLDEN YELLOW	GOLDEN YELLOW
PH VALUE	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
REFRACTIVE INDEX (@ 27 DEG)	1.48	1.49	1.495	1.498	1.510	1.515	1.520	1.525	1.530	1.535	1.540	1.545	1.550	1.560	1.565

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