


RioCare India Private Limited

Plot No. R-940, TTC Industrial Area, MIDC Rabale, Navi Mumbai – 400 701, District: Thane,
Maharashtra, INDIA

FINISHED PRODUCT SPECIFICATION

| | | |
|-------------------------------------|------------------------------|-----------|
| Dimethicone (DMPS) | Effective Date : 01/04/2022 | Reference |
| Specification No.: SPEC- DMPS-02-05 | Supersedes doc. : 01/11/2020 | IP 2021 |

| | | |
|---|---|---|
| NAME | : | Dimethicone [9006-65-9] α -(Trimethylsilyl)- ω -methylpoly[oxy(dimethylsilylene)]. |
| DEFINITION | : | Dimethicone is a mixture of fully methylated linear siloxane polymers containing repeating units of the formula: $[-(\text{CH}_3)_2\text{SiO}-]_n$ stabilized with trimethylsiloxy end-blocking units of formula: $[(\text{CH}_3)_3\text{SiO}-]$ wherein n has an average value such that the corresponding nominal viscosity is in discrete range between 20 and 30,000 centistokes. It contains NLT 97.0% and NMT 103.0% of Polydimethylsiloxane ($[-(\text{CH}_3)_2\text{SiO}-]_n$). |
| DESCRIPTION | : | A clear, colorless, liquid of various viscosities. |
| IDENTIFICATION | : | By infrared absorption. |
| SPECIFIC GRAVITY (at 25°C) | : | 1. 20cSt – limit 0.946 - 0.954 2. 50cSt – limit 0.955 - 0.965 3. 100cSt – limit 0.962 - 0.970 4. 200cSt – limit 0.964 - 0.972 5. 350cSt – limit 0.965 - 0.973 6. 500cSt – limit 0.967 - 0.975 7. 1000cSt – limit 0.967 - 0.975 |
| VISCOSITY (at 25°C) (BROOKFIELD VISCOMETER): | : | 1. 20cSt – limit 18 - 22 cSt 2. 50cSt – limit 47.5 - 52.5 cSt 3. 100cSt – limit 95 - 105 cSt 4. 200cSt – limit 190 - 220 cSt 5. 350cSt – limit 332.5 - 367.5 cSt 6. 500cSt – limit 475 - 525 cSt 7. 1000cSt – limit 950 - 1050 cSt |

| | Prepared by | Checked by | Reviewed by | Approved by |
|---------------------------|------------------|----------------|----------------|---------------------|
| Name | Vaishali Badekar | Leena Panchal | Meena Vaidya | Kalpakam Venkatesan |
| Designation | Sr. Officer -QC | Manager - QC | Manager - QA | Director |
| Signature and Date | 28/03/2022 | 29/03/2022 | 30/03/2022 | 30/03/2022 |


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REFRACTIVE INDEX (at 25°C):

1. 20cSt – limit 1.3980 – 1.4020
2. 50cSt – limit 1.4005 – 1.4045
3. 100cSt – limit 1.4005 – 1.4045
4. 200cSt – limit 1.4013 – 1.4053
5. 350cSt – limit 1.4013 – 1.4053
6. 500cSt – limit 1.4013 – 1.4053
7. 1000cSt – limit 1.4013 – 1.4053

ACIDITY : NMT 0.10 ml of 0.050 N alc.KOH

LOSS ON HEATING (150°C for 2 hrs.) :

NMT 20.0% (for 20cSt).
NMT 2.0% (for 50cSt).
NMT 0.3% (for 100-1000cSt).

HEAVY METALS : NMT 5 µg per g.

ASSAY FOR POLYDIMETHYLSILOXANE: 97.0 to 103.0%

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RETEST DATE : 4 years from the date of manufacture.

STORAGE CONDITION : Store in air tight containers.
Recommended temperature 25⁰C– 40⁰C.

Reason for review:

CCD No.: CC/20-22/054 dt. 23/03/2022 : Updated as per IP 2021.

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