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:[-(CH₃)₂SiO-]_n stabilized with trimethylsiloxy end-

blocking units of formula: $[(CH_3)_3SiO_-]$ 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%

Polydimethylsiloxane ([-(CH₃)₂SiO-]_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

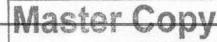
6. 500cSt - limit 475 - 525 cSt

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 10312022	Joena 29/03/2022	Myandon	100 males
QC/GEN002/F02/0)3	UNCONTRO	LLED COPY	Page 1 of 3

F

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

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 : NMT 20.0% (for 20cSt). (150°C for 2 hrs.) : NMT 2.0% (for 50cSt).

NMT 0.3% (for 100-1000cSt).

HEAVY METALS : NMT 5 μg per g.

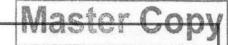
ASSAY

FOR POLYDIMETHYLSILOXANE: 97.0 to 103.0%

	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	Juna 2910312022	Mark Jon	16 201 Cale
C/CEN002/F02/	12	UNCONTROL	LED COPY	Page 2 of 3

F

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	INH

RETEST DATE

4 years from the date of manufacture.

STORAGE CONDITION

Store in air tight containers.

Recommended temperature 25°C-40°C.

Reason for review:

CCD No.: CC/20-22/054 dt. 23/03/2022 :

Updated as per IP 2021.

	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	Juna 29/03/2022	Ward w22	10000le
QC/GEN002/F02/0)3	UNCONTRO	LLED COPY	Page 3 of 3