

Appendix 4 Declaration from the manufacturer of silicone about production of silicone

To be submitted with an application for a Nordic Swan Ecolabel licence.

Please note that for silicone Appendix 3 and Appendix 5 must also be completed.

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| Manufacturer: |
| Trade name of the silicone material: |

Production of silicone

| O6 Emission of dust and chlorides | YES | NO |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|
| The storage and handling of the elemental silicon raw material shall use at least one of the following techniques, see below, please specify which techniques are used. | | |
| Storing of elemental silicon in silos (after grinding) | | |
| Storing of elemental silicon in covered areas protected from rain and wind (after grinding) | | |
| Using equipment designed with hooding and ducting to capture diffuse dust emissions during the loading of elemental silicon into storage (after grinding) | | |
| Maintaining the atmosphere of the grinder at a slightly lower pressure than atmospheric pressure. | | |
| The yearly average of channelled emissions of dust shall be below 5 mg/Nm ³ . The dust emissions should be continuously monitored. Attach test results of the dust measurements taken on site, together with the yearly average of the dust emission. Methods accepted are EN 15267-1, EN 15267-2, EN 15267-3, EN 15267-4, EN 13284-1 and EN 13284-2. The measurement shall cover grinding, storage and handling of elemental silicon as a minimum. Name of attachment: _____ | | |
| Is the yearly channelled dust emission on average below 5 mg/Nm ³ ? | | |
| The off gases from the methyl chloride, direct synthesis and distillation process steps shall undergo thermal oxidation followed by scrubbing. Burning of chlorinated compounds shall be authorised in the thermal oxidation process. Attach details on the processing of the off gases from the methyl chloride, direct synthesis and distillation steps. Name of attachment: _____ | | |

| O7 Emissions of copper and zinc to water | YES | NO |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|
| Are the water effluents from the polydimethylsiloxane (PDMS) production step pre-treated by precipitation or flocculation under alkaline conditions, followed by sedimentation and filtration? Including dewatering of the sludge before disposal and recovering of the solid metal residues in metal recovery plants? Attach description how the effluent is treated. | | |
| Name of attachment: _____ | | |

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| Is the concentration of zinc in the treated effluent below 2 mg/l? Attach test report for zinc measurements. Name of attachment: _____ | | |
| Is the concentration of copper in the treated effluent below 0.5 mg/l? Attach test report for copper measurements. Name of attachment: _____ | | |
| O8 Energy consumption | | |
| <p>Energy consumption data for each energy source must be reported for the production site* of the silicone.</p> <p>Attach completed reporting sheet (available on Nordic Ecolabelling's websites) for the last 12 months, name of attachment:</p> <p>_____</p> <p>Documentation confirming purchased/generated energy from the last 12 months (e.g. invoices or similar documents), name of attachment:</p> <p>_____</p> <p><i>* From gate to gate (phase A3 in EPDs) in all factories (manufacturing, packaging, etc.) manufacturing silicone for Nordic Swan Ecolabelled products. All energy use shall be reported (production, heating of buildings etc.) regardless of the proportion that is dedicated to manufacturing silicone for Nordic Swan Ecolabel products. Internal logistics (e.g. forklifts) and facility operations (e.g. canteens) are included. Upstream/downstream processes (e.g. distribution to retailers) are excluded.</i></p> | | |

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|---------------------------|----------------------------------------|
| Place and date | Company name |
| Responsible person | Signature of responsible person |
| Telephone | Email |