



Technical Data Sheet (TDS)  
**Sodium Bicarbonate (Food Grade)**

|                         |                    |
|-------------------------|--------------------|
| <b>Chemical Name</b>    | Sodium Bicarbonate |
| <b>Chemical Formula</b> | NaHCO <sub>3</sub> |
| <b>Cas No</b>           | 144-55-8           |
| <b>EC No</b>            | 205-633-8          |

**Chemical Properties**

| Parameter                                 | Specification                                |
|-------------------------------------------|----------------------------------------------|
| NaHCO <sub>3</sub>                        | 99.3 min %                                   |
| Na <sub>2</sub> CO <sub>3</sub>           | 0.5 max %                                    |
| Cl <sup>-</sup>                           | 250 max mg/kg                                |
| SO <sub>4</sub> <sup>2-</sup>             | 300 max mg/kg                                |
| Water Insoluble Matter                    | 500 max mg/kg                                |
| Pb / Lead                                 | 0.1 max ppm                                  |
| As / Arsenic                              | 0.1 max ppm                                  |
| Hg / Mercury                              | 0.1 max ppm                                  |
| Cd / Cadmium                              | 0.1 max ppm                                  |
| Fe (Total)                                | 10.0 max ppm                                 |
| Solubility (60 °C)                        | 15.60 g/100 ml water                         |
| Solubility (20 °C)                        | 9.55 g/100 ml water                          |
| Solubility (0 °C)                         | 5.55 g/100 ml water                          |
| pH (25 °C, 1% m/V solution)               | 8.0 – 8.6                                    |
| Test for Sodium                           | Passes Test                                  |
| Test for Carbonate                        | Passes Test                                  |
| Loss on Drying (over silica gel, 4 hours) | ≤ 0.25 %                                     |
| Ammonium Salts                            | No odour of ammonia detectable after heating |

BORTERA KİMYA VE TİCARET LİMİTED ŞİRKETİ

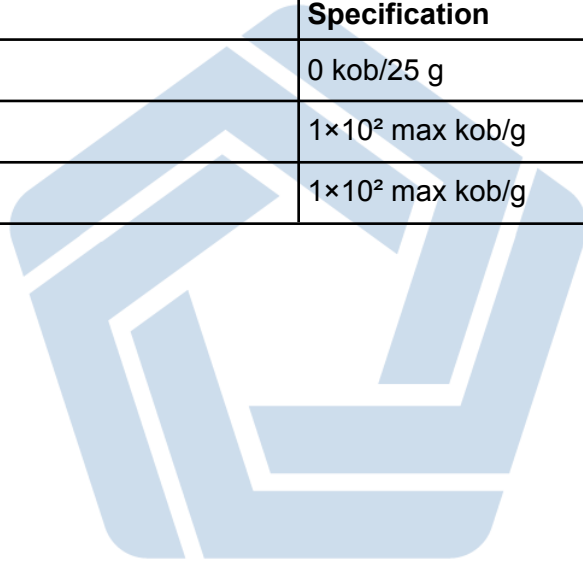
Seyrantepe Mahallesi, Altınay Caddesi No: 90, Seyran Apartmanı, İc Kapi No: 12 34418 Kagithane/İstanbul

**Physical Properties**

| Parameter              | Specification                          |
|------------------------|----------------------------------------|
| Bulk Density           | 0.95 – 1.25 g/cm <sup>3</sup>          |
| Whiteness              | L* = 95 (CIE Lab) min %                |
| Appearance             | Free-flowing, white powder             |
| Solubility             | Soluble in water, insoluble in ethanol |
| Particle Size (+75 µm) | 20 – 90 %                              |
| Particle Size (+45 µm) | 60 – 100 %                             |

**Microbiological Properties**

| Parameter       | Specification               |
|-----------------|-----------------------------|
| Salmonella      | 0 kob/25 g                  |
| Enterococcus    | 1×10 <sup>2</sup> max kob/g |
| Mould and Yeast | 1×10 <sup>2</sup> max kob/g |



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