



Molecular Sieve 13X-K

Formula $\text{Na}_2\text{O} \times \text{Al}_2\text{O}_3 \times 2,5\text{SiO}_2 \times \text{H}_2\text{O}$

Principle applications:

- purification of air from water, Carbon Dioxide, Acetylene in oxygen installations, fractionation;
- air drying in compressors (condensate removing at low temperatures);
- purification of air from Carbon Dioxide prior to its separation into Oxygen and Nitrogen;
- production of Oxygen from air by a short-cycle adsorption technique.

Manufactured according to Technical Specifications 2163-009-05766557-2000

Molecular sieve 13X-K has a high dynamic Carbon Dioxide capacity and is specially produced for air-separation units.

| Parameters | Brand D | | Brand T | | Brand Q | |
|--|--|-------------------|--|-------------------|--|-------------------|
| | Standards acc. to TS | Actual parameters | Standards acc. to TS | Actual parameters | Standards acc. to TS | Actual parameters |
| Appearance | Extrudate | | Tri-lobe | | Quadri-lobe | |
| Bulk density, g/cm ³ | 0,65 ≤ | 0,65±0,8 | 0,6 ≤ | 0,6±0,8 | 0,6 ≤ | 0,6±0,8 |
| Granules size, mm | 4,5±0,5 3,6±0,4 2,9±0,3 2,4±0,2 2,0±0,2 1,6±0,2 | | 4,5±0,5 3,6±0,4 2,9±0,3 2,4±0,2 2,0±0,2 1,6±0,2 | | 4,5±0,5 3,6±0,4 2,9±0,3 2,4±0,2 2,0±0,2 1,6±0,2 | |
| Crushing strength, kg/mm ² | 1,0 ≤ | 1,3±2,0 | 1,0 ≤ | 1,3±2,0 | 1,0 ≤ | 1,3±2,0 |
| Dynamic water capacity, mg/cm ³ For granules, mm | | | | | | |
| Ø 4,5±0,5 | 120 ≤ | 120±130 | 130 ≤ | 130±145 | 132 ≤ | 132±147 |
| Ø 3,6±0,4 | 125 ≤ | 125±135 | 135 ≤ | 135±150 | 137 ≤ | 137±152 |
| Ø 2,9±0,3 | 135 ≤ | 135±145 | 145 ≤ | 145±160 | 147 ≤ | 147±162 |
| Ø 2,4±0,2 | 140 ≤ | 140±150 | 147 ≤ | 147±162 | 149 ≤ | 149±164 |
| Ø 2,0±0,2 | 142 ≤ | 142±160 | 148 ≤ | 148±163 | 150 ≤ | 150±165 |
| Ø 1,6±0,2 | 145 ≤ | 145±170 | 150 ≤ | 150±165 | 152 ≤ | 152±167 |
| Dynamic Benzole capacity, mg/cm ³ For granules, mm | | | | | | |
| Ø 4,5±0,5 | 50 ≤ | 50±60 | 52 ≤ | 52±62 | 54 ≤ | 54±64 |
| Ø 3,6±0,4 | 58 ≤ | 58±70 | 60 ≤ | 60±72 | 62 ≤ | 62±74 |
| Ø 2,9±0,3 | 66 ≤ | 66±75 | 70 ≤ | 70±80 | 72 ≤ | 72±82 |
| Ø 2,4±0,2 | 67 ≤ | 67±77 | 72 ≤ | 72±82 | 74 ≤ | 74±84 |
| Ø 2,0±0,2 | 69 ≤ | 69±80 | 75 ≤ | 75±85 | 77 ≤ | 77±87 |
| Ø 1,6±0,2 | 70 ≤ | 70±82 | 77 ≤ | 77±87 | 79 ≤ | 79±89 |
| Dynamic CO ₂ capacity, mg/cm ³ | 45 ≤ | 45±60 | 47 ≤ | 47±65 | 49 ≤ | 49±67 |
| Mass fraction of water resistance, % | 99,0 ≤ | 99,0-99,9 | 99,0 ≤ | 99,0-99,9 | 99,0 ≤ | 99,0-99,9 |
| Ignition loss, % | Not more than 5 | | | | | |

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