



TECHNICAL DATA SHEET

# AquaSorb® 1000

## Granular coal based activated carbon

### Product Introduction

AquaSorb® 1000 is a medium activity granular activated carbon manufactured by steam activation from selected grades of bituminous coal. The perfect balance between adsorption and transport pores provide optimum performance in a wide range of water treatment applications. The product is a high density adsorbent and provides maximum volume activity. The material is water washed during manufacture and therefore webs rapidly. The excellent hardness and mechanical strength ensures negligible losses during backwashing, air scouring and multiple reactivations (consult technical bulletin TS-308/R/EN9 for more information).

### Product Key Features

- Medium activity
- Optimum pore size distribution
- Water washed
- Maximum hardness and abrasion resistance
- Several world-wide drinking water approvals

### Benefits

- Proven drinking water adsorbent
- Both adsorption and transport pores
- High wettability, does not float, low dust
- Proven superior for multiple reactivations
- NSF 61, AWWA D604-95, EN12915



PARAMETER	UNIT	VALUE	TEST METHOD
Iodine number	mg g⁻¹	200	ASTM D4607
Surface area	m² g⁻¹	950	SET N₂
Methylene blue	mg g⁻¹	200	JACOBZ T4001
Total pore volume	cm³ g⁻¹	0.88	Porosimetry (N₂/Hg)
Apparent density	kg m⁻³	500	ASTM D2854
Bed density, backwashed and drained	kg m⁻³	430	Note 1
Wettability	%	99.5	JACOBZ T4003
Moisture content - as packed	%	2	ASTM D2857
Water soluble matter	%	0.2	ASTM D5029
pH		8	ASTM D3838
Chlorine half length value (12x40 USG)	cm	3.0	DIN 19803
Ball-pen hardness number	%	96	ASTM D3802

### TYPICAL APPLICATIONS

- Municipal drinking water treatment
- Residential drinking water treatment
- Adsorption of taste and odor
- Removal of pesticides and herbicides
- Soft drink production
- Swimming pool filters
- Aquarium filters
- Protection of ion exchange resins
- MCA/DEA purification-gas sweetening

PARAMETER	UNIT	20x40 USG	12x40 USG	8x30 USG	10x20 USG	8x16 USG	6x12 USG
Available particle sizes	mm	0.425-0.85	0.425-1.70	0.60-2.30	0.85-2.00	1.15-2.30	
Oversize maximum	%	3	5	5	3	3	
Undersize maximum	%	4	4	4	4	4	
Effective size	mm	0.4	0.6	0.6	1.0	1.2	
Uniformity coefficient		1.5	1.7	1.7	1.6	1.6	
Mean particle diameter	mm	0.6	1.0	1.4	1.4	1.6	