

# ACTIVATED CARBON

- REF. RA204, RA206 and RA208;
- range of granular activated carbons designed for reduction of chlorine and organic contaminants dissolved in water for civil and industrial purpose;
- manufactured from select grades of bituminous (or vegetal origin) coal, with a thermal activation process at strictly controlled temperature to obtain a large surface area and a porous structure allowing the adsorption of low and high molecular weight organic compounds;
- high density activated carbons with good resistance to the attrition and mechanical stocks;
- activated carbon require periodic backwashing to eliminate accumulated suspended matters and to regrade the filter bed;
- a good backwashing of the AC filter bed of the start-up is required.



## PHYSICAL PROPERTIES:

REF.	TYPE	ORIGIN	SIZE (mm)	BULK DENSITY (g/l)	BET (m <sup>2</sup> /g)	IODINE NUMBER (mg/g)	BAG WEIGHT (kg)	BAG VOLUME (litres)
RA204	SC45 cylindrical	Mineral	4	530	700	750	25,0	47
RA206	GAC DCN 1000 8x30	Vegetal	0,5 ÷ 2,4	550	1100	1000	25,0	46
RA208	GAC DCN 1000 12x40	Vegetal	0,4 ÷ 1,6	550	1100	1000	25,0	46

## OPERATING CONDITIONS:

Bed depth (mm) (dechlorination)	650 ÷ 750
Service flow rate (m <sup>3</sup> /h m <sup>2</sup> ) (dechlorination)	12 ÷ 15
Backwash flow rate (m <sup>3</sup> /h m <sup>2</sup> )	24 ÷ 30
Backwash bed expansion (%)	30 ÷ 40