

## PRODUCT DESCRIPTION AND APPLICATION

NMSiCΩC99@35 is made of spherical carbon-coated SiC nanoparticles (primary particles) and is supplied as a powder.

This product can be used as an additive in various elastomer, composite or metal alloy formulations to improve electrical, mechanical, chemical and/or plasma-resistance properties of the matrix.

## BASIC CHARACTERISTICS

Specific Surface Area (m <sup>2</sup> /g)	=	90 - 130
Density (g/cm <sup>3</sup> )	=	2.7 – 3.1
Average Particle Size (nm)	=	< 50
Moisture Content (wt.%)	=	< 1

## CRYSTAL STRUCTURE

Core crystal phase	=	SiC 3C (beta) only
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## CHEMICAL COMPOSITION

Carbon Excess (molar %)	=	> 10
Silicon (wt. %)	=	58 - 70
Carbon (wt. %)	=	30 - 42
Oxygen (wt. %)	=	< 1
Iron (ppm)	=	< 40
Chromium (ppm)	=	< 20
Nickel (ppm)	=	< 5