

## Technical Data Sheet

Ref: 77G\_GS  
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**Commercial Name:** GRANUFIN<sup>®</sup> 77G/77GS  
**Manufacturer:** Venator Pigments S.p.A.

### General Description

Chemical Formula: Fe<sub>3</sub>O<sub>4</sub>  
Type: Black Iron Oxide Pigment  
Colour Index: Pigment Black 11 (77499)  
CAS No.: 1317-61-9  
EINECS No.: 215-277-5  
Form: Granules

### Technical Data - Specified Values

	<u>min.</u>	<u>max.</u>	<u>Test Method</u>
Colour Tolerance against current standard <sup>(1)</sup> :			
ΔE*		1.2	LO-32
Relative Tinting Strength (%)	95	105	LO-32
Water Soluble Salts <sup>(2)</sup> (%)		5.0	LO-05
Chloride Content (%)		0.1	LO-43
pH	6	10	LO-06

### Technical Data - Typical Values

Fe <sub>2</sub> O <sub>3</sub> Content	95+	LO-16
Particle Shape	Cubic	T.E.M. <sup>(3)</sup>
Specific Gravity (g/cm <sup>3</sup> )	approx. 4.6	ISO DIN 787/10
Apparent Density (g/cm <sup>3</sup> )	approx. 1.3	LO-09
Water Content ex. works (%)	≤ 1.0	LOG-25

**Standard Packaging:** 25 kg bags, 1000 kg Supersacks

**Notes:**  
(1) Grey Cement  
(2) Sulphates  
(3) T.E.M. = Transmission electron microscopy  
All data is given in good faith but without warranty. Granufin<sup>®</sup> 77G, 77GS  
comply with EN 12878 (Category A and B). 0840-CPR-1014-090021-08

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