

TECHNICAL DATA

# STELLITE™ 306N ALLOY – Welding Powder

**STELLITE™ COBALT-BASED ALLOYS** consists of complex carbides in an alloy matrix. They are resistant to wear, galling, and corrosion and retain these properties at high temperatures. Their exceptional wear resistance is due mainly to the unique inherent characteristics of the hard carbide phase dispersed in a CoCr alloy matrix.

## NOMINAL CHEMICAL COMPOSITION (MASS%)

Co	C	Cr	W	Ni	Nb	Mn	Si	Fe
Bal.	0,45 – 0,65	23,0 – 26,0	2,5 – 3,5	5,0 - 7,0	5,0 - 7,5	0,7 – 1,3	0,7 – 1,3	<= 3,0

## PHYSICAL PROPERTIES (Undiluted weld metal)

ALLOY	Hardness	Density
Stellite™ 306N	32 - 40 HRC	4-5 g/cm <sup>3</sup>

## DELIVERY

Product Dimensions and Properties		
Powder Particle Size Range*	53...150µm	
Apparent Density*	On report (3.1 certificate)	
Hall flow*	On report (3.1 certificate)	
Packaging	In 5 kg bottles.	Customer specific.

\*Sieve analysis according to EN 24497 is performed during manufacturing, results are given in 3.1 certificate with delivery of the powder.

## GENERAL INFORMATION

Stellite™ 306N Cobalt-base welding powders are manufactured by gas atomization. A batch is produced from the same heat.

Store the powder in closed bottles under room temperature and dry conditions (Temperature  $\geq$  18°C, relative humidity < 60%). If needed, dry the powder in an oven with open bottles at a temperature of 75°.

The work piece must be clean before welding.

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