



SODIUM CYANIDE PRODUCT DATA SHEET

PRODUCT DESCRIPTION

Sodium cyanide (NaCN) is a white crystalline solid in the form of briquettes 46.5 mm long, 36.5 mm wide and 20.3 mm thick; it is deliquescent, i.e. it has the capacity to absorb moisture from the air and slowly dissolve in it. It is odourless when dry, but on absorbing moisture it can acquire an odour characteristic of hydrogen cyanide (bitter almond) or ammonia.

For inspection purposes, the following data apply:

Table 1: Details for inspection

Description	Data
Product name	SODIUM CYANIDE
Commercial name	SODIUM CYANIDE
Restriction code	046
Type of merchandise	1-INPUT
Concentration range	98% (+/- 1)
Density	800–1,000 kg/m ³
Product grade	03 - Chemically Pure Grade (CP)
Unit of measurement for control	kg (kilograms)
Internal handling code	1SODCYA1135
Packaging type 1	1,300 kg boxes (gross weight)
Packaging type 2	1,165 kg boxes (gross weight)
Packaging type 1 net weight	1,135 kg
Packaging type 2 net weight	1,000 kg
Tariff subheading	2837111000
CAS No.	143-33-9
Use	Industrial

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SALES PRESENTATION:

In big boxes inside FCLs (containers)

Each container contains 20 wooden boxes known as ‘big boxes’, each containing a big bag with 1,135 kg or 1,000 kg of sodium cyanide (depending on the original packaging). The big bags consist of 2 shells, an internal polyethylene shell with greater tear resistance fitted with 4 handles for product handling during operations at the plant, and another shell made of polypropylene, sealed to prevent the product from absorbing water.

In ISO tanks

The product is transferred into ISO tanks at the Sparge plant. The ISO tanks may have a capacity of 22,700 kg, 22,000 kg or 20,000 kg according to the customer’s requirements. The process at Orica’s Sparge plant consists in decanting 20 big bags into an ISO tank with a capacity equivalent to either 22,700 kg, 22,000 kg or 20,000 kg, as applicable. The ISO tanks have safety and sealing features to ensure their safe transport and handling up until delivery to the customer. The standard technical data for the ISO tanks are set out in Table 2.

Table 2: ISO tank details

Description	Data
Type	IMO 2
Push-on frame dimensions	2,438 m x 2,840 m x 6,058 m
Storage tank dimensions	2,500 m (diameter) x 6,120 m (length)
Plate thickness	6 mm
Material	Grade 350 carbon steel
Details for full ISO tank:	
Maximum gross weight	30,400 kg
Maximum net weight	26,000 kg
Net weight per tank	22,700 kg / 20,000 kg / 22,000 kg
Tare	4,400 kg
Pressure	
Design pressure	450 kPag
Working pressure	175 kPag
Vacuum pressure	100 kPag