



Fast-Melting-Silicon (DS-Si95)

Performance & Purpose:

The product is used in casthouse for the manufacture of high quality aluminium alloy in applications such as rolling ingot for foilstock or canstock, or billet for precision extrusions and high quality foundry cast alloys.

It can substitute for **Silicon metal** and **AlSi master alloy** to adjust precisely composition of alloying melt. The product can be added into liquid aluminium directly.

Chemical Composition:

The product contains 95% Silicon, and the balance is Flux

Chemistry(≤wt%)				
Si	Fe	Al	Ca	Balance
≥95.0	0.3	0.3	0.03	Sodium-free, Non-hygroscopic Flux

Usage temperature:

Above 740°C

Calculate the quantity of Fast-Melting-Silicon that need to add:

(Target element content% – Original element content%)

----- × Weight of furnace liquid
(Content of Fast-Melting-Silicon 95% × Recovery rate 90%)

Usage Method:

1. Calculate the quantity of Fast Melting Silicon that need to be added
2. Adding method (two options):
 - 1). Put Fast Melting Silicon on the bottom of empty furnace averagely along with other charges material ,and start melting process. (Same usage method as Silicon metal, This method is more suitable for the high Si content alloys producing ,such as 6xxx alloys).
 - 2). Put Fast Melting Silicon into the liquid dispersedly after slagging off the liquid surface, when the temperature is above 740°C. (It should be added into liquid aluminium by batches, not more than 2% of liquid weight each time. Don't let it pile up.)
3. Wait for 1-5 minutes till fully melted (don't stir now)
4. Stir for 1-5 minutes
5. Analyse final Si content of the liquid



CANGZHOU DONGSHENG METAL CO., LTD

Packing & Storage:

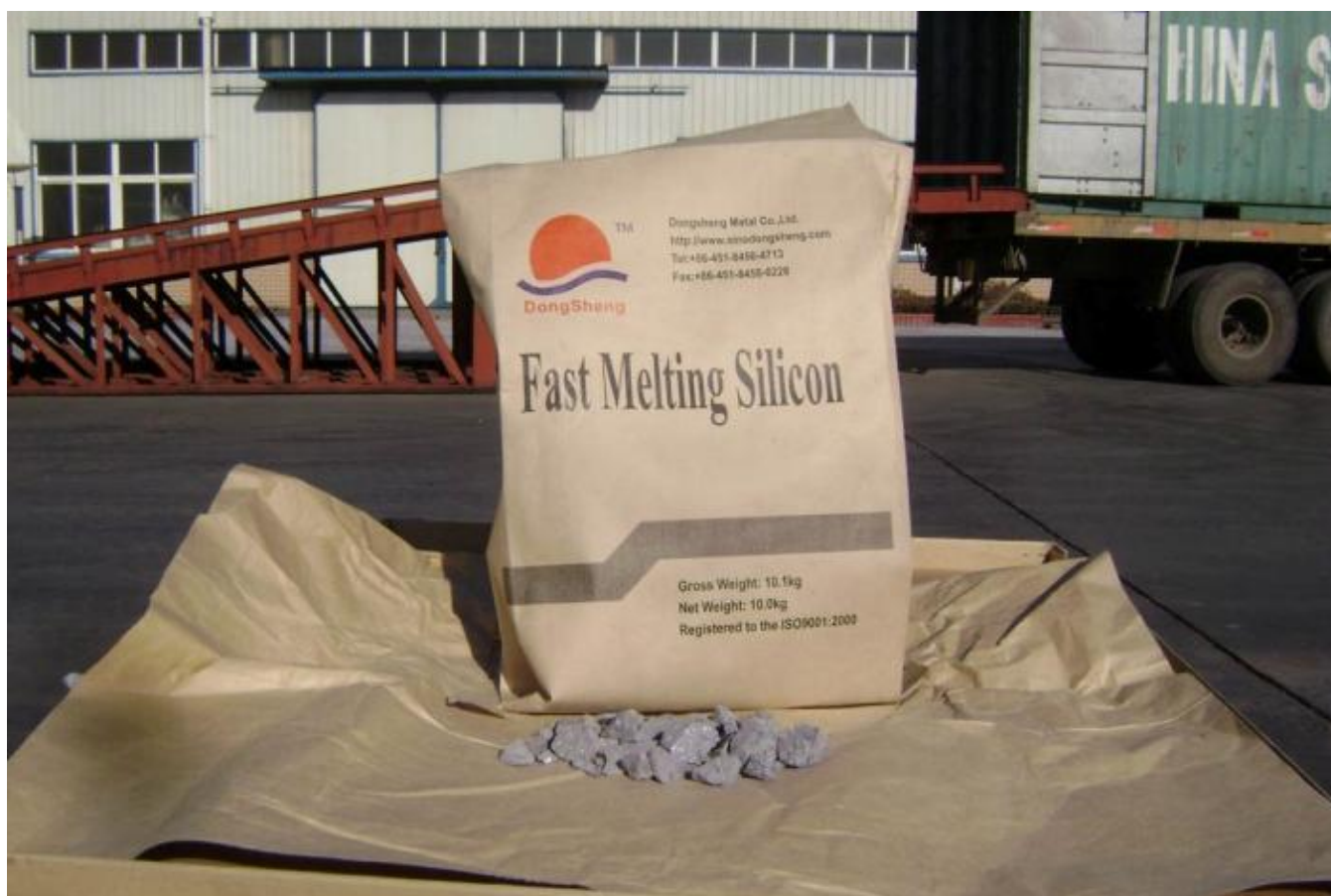
10kg/bag. 1,000kg/case. Stored in dry place.

Comparison:

	Size(diameter)	Melting point	Melted time	Recovery rate
Silicon metal	50-100mm	1420°C	30-40 minutes	<90%
Fast melting silicon	10-50mm	740°C	1-5 minutes	>90%

Advantages:

1. Very fast melted
2. High recovery rate
3. Reduce burning loss
4. Save energy consumption and labor cost



Address: 11A Beihai Road, Development Zone, Cangzhou, China
Tel: +86-451-8450 0238 Mobile: +86-136 5468 0860
Fax: +86-451-8450 0228 Email: mike@sinodongsheng.com