



環球物源有限公司

**Sino-Global Sourcing & Supply Limited**

3705, Bank of America Tower, Suite 603, 12 Harcourt Road, Central Hongkong

### Mould Powder

SPECIFICATIONS		
Properties	Index	LUBRICARE
		860
Chemical compositions (%)	SiO <sub>2</sub>	31.55
	Al <sub>2</sub> O <sub>3</sub>	4.91
	Fe <sub>2</sub> O <sub>3</sub>	1.46
	CaO	27.89
	MgO	2.63
	K <sub>2</sub> O	0.28
	Na <sub>2</sub> O	9.90
	F	7.82
	S	0.154
	R	0.88
	H <sub>2</sub> O	0.30
	C(steady)	3.74
Softening temperature (°C)		860
Flowing temperature (°C)		1080
Melting temperature (°C)		1072
Melting speed(s)		27
Bulk density (g/cc)		0.60
Viscosity @1300°C (Pa.s)		0.146
Size (%) +80 mesh		95

Mould flux or powder is used while casting steel from tundish in the mould. Mould flux or casting powder is applied to maintain and protect the surface of the molten metal. An effective mould powder provides chemical protection to molten steel from oxidation; and it also provides thermal insulation preventing solidification of steel surface. It lubricates the strand to the mould to provide uniform heat transfer between the strand and the mould wall. It absorbs harmful inclusions in the molten slag pool.

The mould powders are essentially of **CaO-Al<sub>2</sub>O<sub>3</sub>-SiO<sub>2</sub>** with addition of fluxing agents, carbon, alkali and some other glass formers and the basic oxides. In particular, carbon content adjusts the melting properties providing the system with suitable melting rate. It also prevents excess sintering of the powder layer, as it increases the thermal conductivity of the material.



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## Mould Powder user's reference list

### 1. BAOSHAN STEEL INDUSTRIES, SHANGHAI, CHINA

a. C.C. MOLD POWDER FOR MEDIUM CARBON STEEL PLATES

- PRODUCT TYPE LUBRICARE MCSP
- 2 SUITABLE FOR IV, JV, JT, GV, PU, AP2450, JU, etc
- 3 SECTION mm<sup>2</sup> (210-250)×(900-1930)
- 4 CASTING SPEED m/min 1.0-1.4

### 2. WUHAN STEEL GROUP COMPANY LTD. CHINA

a. C.C. MOLD POWDER FOR MEDIUM CARBON STEEL PLATES

- PRODUCT TYPE LUBRICARE C0.10~0.35
- SUITABLE FOR C :0.10~0.35%
- SECTION mm<sup>2</sup> 230×1250/1300/1550
- CASTING SPEED m/min 1.3-1.4

### 3. ANSHAN STEEL GROUP COMPANY LTD. CHINA

a. C.C. MOLD POWDER FOR MEDIUM CARBON STEEL PLATES

- PRODUCT TYPE LUBRICARE C0.15~0.35
- SUITABLE FOR C :0.15~0.35%
- SECTION mm<sup>2</sup> 150×(900-1200)
- CASTING SPEED m/min 1.0-1.5

### 4. BAOSHAN STEEL INDUSTRIES, SHANGHAI, CHINA

a. C.C. MOLD POWDER FOR ULTRA LOW CARBON STEEL PLATES

- PRODUCT TYPE LUBRICARE ULCSP
- 2 SUITABLE FOR ULTRA LOW Carbon Steel Plates
- 3 SECTION mm<sup>2</sup> (210)×(900-1930)
- 4 CASTING SPEED m/min 0.9~1.45

### 5. WUHAN STEEL GROUP COMPANY LTD. CHINA

a. C.C. MOLD POWDER FOR ULTRA LOW CARBON STEEL PLATES

- PRODUCT TYPE LUBRICARE ULCSP-Si
- SUITABLE FOR Silicon Steel(C≤0.07% Si 1.4-3.5%), Ultra Low Carbon Steel(C ≤0.05%)
- SECTION mm<sup>2</sup> (210-250)×(1100-1550)
- CASTING SPEED m/min 0.6-0.9

### 6. JHUJIANG STEEL COMPANY LTD. CHINA

a. C.C. MOLD POWDER FOR CSP THIN SLABS

- PRODUCT TYPE LUBRICARE 1350
- SUITABLE FOR Steel Plate for Container
- SECTION mm<sup>2</sup> 50×(1000-1350)
- CASTING SPEED m/min 4.0-6.0

Tel: +852-21159628, Fax: +852-21159818, HP: (CN) +86-13904070961, (IN) +91-9831690889

E-mail: info@sgssl.com, mishrasc@hotmail.com, Website: www.sgssl.com



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**7. BAOTOU STEEL COMPANY LTD. CHINA**

a. C.C. MOLD POWDER FOR CSP THIN SLABS

- PRODUCT TYPE LUBRICARE 1550
- SUITABLE FOR Medium Carbon Steel
- SECTION mm<sup>2</sup> 65×1250/1550
- CASTING SPEED m/min 3.5-4.5

**8. HANDAN STEEL COMPANY LTD. CHINA**

a. C.C. MOLD POWDER FOR CSP THIN SLABS

- PRODUCT TYPE LUBRICARE 1680
- SUITABLE FOR Medium Carbon Steel
- SECTION mm<sup>2</sup> 70×(900-1680)
- CASTING SPEED m/min 3.8-4.5

**9. THANGSHAN STEEL COMPANY LTD. CHINA**

a. C.C. MOLD POWDER FOR CSP THIN SLABS

- PRODUCT TYPE LUBRICARE 900-1350
- SUITABLE FOR Medium Carbon Steel
- SECTION mm<sup>2</sup> 90×(900-1350)
- CASTING SPEED m/min 3.9

**10. PANZHIHUA STEEL COMPANY LTD. CHINA**

a. C.C. MOLD POWDER FOR LOW CARBON STEEL PLATES

- PRODUCT TYPE LUBRICARE 900-1350
- SUITABLE FOR Medium Carbon Steel
- SECTION mm<sup>2</sup> 90×(900-1350)
- CASTING SPEED m/min 3.9

**11. BENXI STEEL COMPANY LTD. CHINA**

a. C.C. MOLD POWDER FOR LOW CARBON STEEL PLATES

- PRODUCT TYPE LUBRICARE LCSP
- SUITABLE FOR C :0.06-0.10%
- SECTION mm<sup>2</sup> 210/230×1050/1250/1300/1400/1550
- CASTING SPEED m/min 1.1-1.5

**12. MAISHAN STEEL COMPANY LTD. CHINA**

a. C.C. MOLD POWDER FOR LOW CARBON STEEL PLATES

- PRODUCT TYPE LUBRICARE C0.06~0.15
- SUITABLE FOR C :0.06-0.15%
- SECTION mm<sup>2</sup> 210×(900~1300)
- CASTING SPEED m/min 0.97-1.05