



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

Tundish Powder

SPECIFICATIONS		
Properties	Index	ANTIHEATFLUX
		1350
Chemical compositions (%)	SiO ₂	37.25
	Al ₂ O ₃	38.03
	Fe ₂ O ₃	3.15
	CaO	3.12
	MgO	3.61
	H ₂ O	0.45
	C(steady)	7.41
Melting temperature (°C)		1350
Size (%) +100 mesh		86

Tundish flux or powder provides multiple functions. Firstly it insulates the molten steel both thermally (**preventing excessive heat loss**) and chemically (preventing air entrainment & reoxidation). The quality of the flux being used also play vital role, such as nitrogen pick-up was reported to be reduced from 16ppm to 5ppm, from ladle to mould by changing tundish flux with lower SiO₂ content, in one of South American steel works. Secondly, in ideal circumstances, the flux also absorbs inclusions to provide additional steel refining.

A common tundish flux is burnt rice husk, which is inexpensive, a good insulator, and provides good covering without crusting. However, rice husk is high in silica (>80%), which can be reduced to form a source of inclusions. They are also very dusty with their high carbon content around 10%, may contaminate ultra low carbon steel. Basic fluxes (CaO-Al₂O₃-SiO₂ based) are better than rice husk to avoid any Si or C inclusions in tundishes. Basic fluxes have been reported to reduce the total oxygen content of steel bath, also.