

JS-650

PRODUCT DATA SHEET



Product Code

JS-650

General Description

The JS-650 wear resistant compound steel plate has been developed for applications requiring high resistance against wear by abrasion combined with medium impact.

Since its present to the market place, JS-650 has established itself as the leading general purpose wear resistant alloy, meeting a wide variety of requirements in a large number of fields of application and industry segments.

Chemical Composition of Deposited Metal (Wt. %)

	C	Si	Mn	Cr	Fe
Typical	≥3.60%	≥0.7%	≥0.6%	≥20.0%	Rem

General Characteristics

Type of alloy	Iron based
Group of alloys	High chromium iron
Microstructure	Primary carbides and M7C3 eutectic carbides in an austenitic matrix
Typical hardness range	HRC 55-58
Cracking	Yes
Abrasion	Excellent
Impact resistance	Moderate
Typical service temperature	Up to 300°C
Machining	Only Grinding
Flame cutting	No - Plasma-arc is the generally preferred method of cutting

Areas of industrial use

The JS-650 wear plate are used in many segments of industry: Steelworks, Dredging, Mining, Refineries, Cement, Glass, Timber, Power Generation Plants, Earthmoving, Sugar Mills, Paper and pulp industry, etc.

Typical fields of applications

Sieve of scatter grader	Suction and discharge dredge pipes
Reclaimer protecting plate	Screw conveyors
Chutes and decks of all types and sizes	Catalyst feed nozzles
Vertical mill protecting parts	Chain conveyor wear plates
Cyclones	Side protecting plate of pressure roller
Chopping cone inner liners	Shovel bucket wear liners
Crusher liners	Fan blade and housing liners
Coal mill classifier cones	Bottom ash screws
Inner housing of air lock	V shape separator wear plate
Vibratory feeders	Pump shells and pump impellers
Hopper liners	Feed pipes and lift pipes

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Value evolved from solution