

The Davy Roll Company Limited

Description

Core Materials for Double Pour Rolls

Any double pour roll, static or centrifugally cast, can usually be supplied with either a flake or nodular graphite iron core.

The choice of material is dictated by the mechanical properties required.

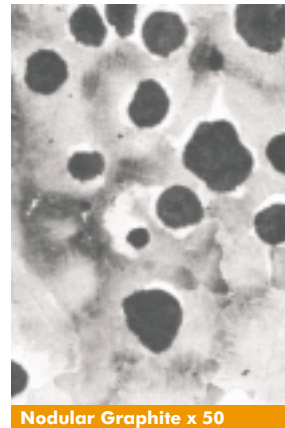
Typical Mechanical Properties

Property	N/mm ²	
	Shell	Core
Tensile Strength	235	425
Bending Strength	345	835

Applications

Journal and axis materials for Alloy Indefinite Chill, SG Acicular Chill, High Chromium and High Speed Steel rolls.

Micrograph



Nodular Graphite x 50



Flake Graphite x 50

Material Types

Code	Description
CI	Flake Core, Static Cast
RI	Flake Core, Centrifugal Cast
CSG	Nodular Core, Static Cast
RSG	Nodular Core, Centrifugal Cast
TSG	Nodular Core, High Speed Steel, Centrifugal Cast

Typical Analysis

Code	Leeb E	Shore C	C	Si	Mn	Ni	Cr	Mo	Mg
CI	525-590	40-50	2.9/3.5	1.5/2.5	0.3/1.0	0.3/1.5	0.5 max	0.2 max	-
CSG	525-590	40-50	2.7/3.3	1.5/2.5	0.3/1.0	0.5 max	0.5 max	0.2 max	0.04/0.1
RI	465-525	30-40	2.9/3.5	1.2/2.2	0.3/1.0	0.5/1.5	1.0 max	0.2 max	-
RSG	465-560	30-45	2.7/3.3	1.5/2.5	0.3/1.0	0.5 max	0.3 max	0.2 max	0.04/0.1
TSG	465-560	30-45	2.7/3.3	2.5/3.5	0.1/0.5	0.5 max	0.3 max	0.2 max	0.04/0.1

