

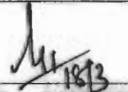



**GOVERNMENT OF INDIA
(Ministry of Railways)**

**SPECIFICATION FOR
CALCINED DOLOMITE
(PL No. 81982902)**

**MECHANICAL DRAWING OFFICE
RAIL WHEEL FACTORY
YELAHANKA, BANGALORE-560 064
INDIA**

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CME	CWE/W	Dy. CME/Mfg	WM/WP
APPROVED	REVIEWED	VERIFIED	PROPOSED

SPECIFICATION FOR CALCINED DOLOMITE

1.0 SCOPE

This Specification covers the requirement and supply of Calcined Dolomite Lime for use in Electric Arc Furnace steel making practice at Rail Wheel Factory, Yelahanka, Bangalore - 560 064.

2.0 JOB REQUIREMENT

Calcined Dolomite is obtained by calcination of low sulphur Dolomite. The fuel used during calcination in kilns shall be such one that sulphur content is not increased during calcination.

Calcined Dolomite is used as flux for making slag in the steel making process through Electric Arc Furnace melting practice.

3.0 CHEMICAL COMPOSITION

Sl. No.	Characteristics	Requirement
1	CaO	50-55%
2	MgO	30% (min.)
3	SiO ₂	5% (max.)
4	Loss on Ignition	3% max.)
5	Total Sulphur	0.20% (max.)

3.1 The Calcined Dolomite shall be free from foreign matter like clinkers, mud, slag, stone, ash etc., which impart deleterious effects while usage in steel making.

4.0 SIZE RANGE

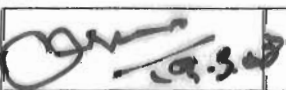

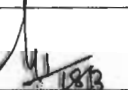

25 -75 mm (1"- 3")

Undersize : -25mm (10% max.)

Oversize : +75mm (10% max.)

5.0 TEST CERTIFICATE

The supplier shall submit the test certificate pertaining to the lot, ensuring conformance to the specification.

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6.0 SAMPLING NORM

For each lot of quantity, the number of bags selected to collect samples are indicated below:

Total Quantity, MT	Size of the material
10 or less	4 bags at random
>10 to 25	8 bags at random
>25 to 50	16 bags at random
>50 to 100	28 bags at random

A composite sample shall be made.

7.0 CRITERIA FOR CONFORMITY ON COMPOSITE SAMPLE

For declaring the conformity of the lot to the requirements of characteristics tested on the composite samples, the test results shall satisfy the corresponding specified requirements as stipulated under clause 3.0.

8.0 METHOD OF CHEMICAL ANALYSIS & TESTING

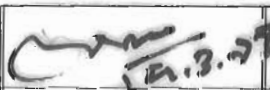

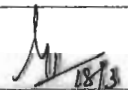

Each composite sample will be tested as per IS 1760:1991 (Part 1, 2 & 3) / ASTM C-25/99.

9.0 PACKING

The material shall be packed in 25 kg capacity bags which are double lined and airtight. Calcium Dolomite is hygroscopic in nature and is liable to absorb moisture from atmosphere. Hence care shall be taken during packing, to avoid ingress of air into bags. The packing material should be eco-friendly and biodegradable.

10.0 SHELF LIFE

In packed condition the material should have a shelf life of minimum twenty days from the date of receipt. The date of manufacture of Calcined Dolomite must be indicated on every bag.

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