



SISANDA AGRIC



RAILWAY SLEEPER SPEC



MATERIAL:

Msasa (*Brachystegia spiciformis*) railway sleepers of several lengths, and 250 mm width and 125 and 150 mm thickness.

PRODUCT	DIMENSIONS			UNIT VOL (M3)
	THICKNESS	WIDTH	LENGTH	
Hardwood railway Sleepers	150mm	250mm	2100mm	0.0788m3
Hardwood railway Sleepers	150mm	250mm	2400mm	0.0900m3
Hardwood railway Sleepers	150mm	250mm	2700mm	0.1013m3
Hardwood railway Sleepers	150mm	250mm	3000mm	0.1125m3
Hardwood railway Sleepers	150mm	250mm	3400mm	0.1275m3
Hardwood railway Sleepers	150mm	250mm	3700mm	0.1388m3
Hardwood railway Sleepers	150mm	250mm	4200mm	0.1575m3

QUALITY SPECIFICATION:

According to Transnet BBB2544 (Version 4) 2020

TIMBER TREATMENT:

Process: The creosote treatment plant applies creosote, a wood preservative, to timber using a vacuum-pressure impregnation process. This process ensures deep penetration of the creosote into the wood, offering long-term protection against decay, insects, and weathering. Creosote is particularly effective for heavy-duty applications like utility poles, railway sleepers, and marine structures.

Creosote: A wood preservative, is a complex mixture derived from coal tar, composed of various aromatic hydrocarbons, including PAHs (polycyclic aromatic hydrocarbons), phenols, nitrogen-containing heterocycles, sulfur-containing heterocycles, and oxygen-containing heterocycles. Specifically, coal tar creosote contains anthracene, naphthalene, and phenanthrene derivatives, with PAHs making up at least 75% of the mixture.





Breakdown of the key components:

- **Aromatic Hydrocarbons:** This includes PAHs, benzene, toluene, and xylene, with PAHs being the most significant component.
- **Phenols:** These are aromatic compounds that include phenols, cresols, xylenols, and naphthols. Nitrogen-containing
- **Heterocycles:** These include compounds like pyridines, quinolines, acridines, indolines, and carbazoles.
- **Sulfur-containing Heterocycles:** These are mainly benzothiophenes.
- **Oxygen-containing Heterocycles:** These are primarily dibenzofurans.

Certification:

All wooden products quoted are 100% FSC certified SGS-FM/COC-002870, meaning that it comes from a forest that is responsibly managed, operating in an environmentally, economically and socially responsible way. FSC® forest certification is a voluntary tool that attests to the origin of the forest raw material of a product.



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