

COST PERFORMANCE OF VARIOUS WEAR RESISTANT LINING MATERIALS

Cost figures for materials having a Wear Index above 1.5 are not given since they are unlikely to be of practical use, in comparison with EN8.

The lining materials below were field tested for sliding wear performance in coke chutes.

The results quoted are intended to give a broad indication of lining material cost and performance.

The costs quoted are basic lining material purchase costs and do not include the costs of installation or fitting.

MATERIAL	DESCRIPTION	COST/ LITRE	WEAR INDEX	RELATIVE LIFE	COST/ UNIT WEAR
Coromant	Sintered Tungsten Carbide	£742.00	0.0275	36.36	£ 20.407
High alumina ceramic	Fully Sintered Alumina	£ 4.00	0.0800	15.00	£ 0.235
ZAC 1681	Fusion Cast Alumina	£ 6.00	0.1150	8.69	£ 0.690
Mecla 1687	Steel Armour Plate	£ 10.96	0.1340	7.46	£ 1.460
Duaplate	Cr Plated Hard Facing	£ 24.00	0.2065	4.48	£ 5.357
BF 253	Hi Cr White Cast Iron	£ 5.19	0.2310	4.33	£ 1.199
BF954	Ni Cr White Cast Iron	£ 4.80	0.4800	4.16	£ 1.154
Compass 855	Steel Armour Plate	£ 2.94	0.2860	3.49	£ 0.842
Red Diamond	Work Hardened Steel	£ 5.32	0.3070	3.32	£ 1.602
ZAC AG	Sintered Crushed ZAC	£ 2.30	0.3210	3.11	£ 0.740
BF202	Cr Mo White Iron	£ 7.36	0.3310	3.02	£ 2.437
CP 30 B	QT Steel	£ 10.18	0.3350	2.98	£ 3.416
CX AR 360 5	QT Steel	£ 3.56	0.3590	2.76	£ 1.290
Cast Basalt	Volcanic Rock	£ 0.95	0.3780	2.64	£ 0.360
Domitz	Cr Mo White Iron	£ 28.25	0.3950	2.53	£ 11.166
Lefco Tile	Acid Resistant Floor Tile	£ 0.44	0.4130	2.42	£ 0.182
Delcrom C	Cast Cr Fe Alloy	£ 83.00	0.4207	2.34	£ 35.470
Siebara	QT Steel	£ 10.10	0.4600	2.17	£ 4.654
CP 30 A	QT Steel	£ 10.18	0.4620	2.16	£ 4.713
Hotspur 500	QT Steel	£ 8.22	0.4620	2.16	£ 3.805
Meehanite H52	SG Iron	£ 6.65	0.4700	2.12	£ 3.137
Creusabro 32	Normalised Steel	£ 3.32	0.5290	1.90	£ 1.747
CT/H	Low Alloy Cast Iron	£ 5.54	0.5250	1.87	£ 2.962
Rymet	Low Alloy Cast Steel	£ 4.95	0.5710	1.75	£ 2.828
Creusabro 400	Normalised Steel	£ 4.25	0.5600	1.53	£ 2.778
Sinzig Tile	Acid Resistant Floor Tile	£ 1.16	0.6580	1.52	£ 0.763
Arcol 360	QT Steel	£ 3.62	0.6600	1.51	£ 2.397
Loycon QT	QT Steel	£ 3.80	0.6650	1.50	£ 2.533
Decol 445	QT Steel	£ 3.23	0.7440	1.43	£ 2.259
Nori Brick	Carbonif Shale Brick	£ 0.07	0.7600	1.31	£ 0.053
Wooliscroft Tile	Acid Resistant Floor Tile	£ 0.35	0.7880	1.28	£ 0.273
ARQ 340	QT Steel	£ 3.32	0.8150	1.22	£ 2.721
ARQ 280	QT Steel	£ 3.15	0.8840	1.13	£ 2.788
Alag	Aluminous Cement	£ 0.33	0.9100	1.09	£ 0.303
BS11	Rail Steel	£ 2.19	0.9900	1.01	£ 2.168
EN8	Steel	£ 1.44	1.0000	1.00	£ 1.440
BS 4360 50B	Steel	£ 1.57	1.077		£ 1.691
EN58	312 Stainless Steel	£ 9.63	1.095		£ 10.544
BS 4360	Rolled Mild Steel	£ 1.41	1.493		£ 2.110
Plate Glass			1.760		
Sega	Solid Rubber		1.850		
Duromit	Composite Concrete		1.900		
Lintafom	Polyurethane Sheet		2.160		
Trelleborg	Solid Rubber		2.360		
Betonac	Concrete		2.410		
Arco	Solid Rubber		4.800		
Tercol	Resin Bauxite Trowelable		5.000		
Prescollan 7301	Cast Polyurethane		6.900		
Solidur	Polyethylene Sheet		7.050		
Perplas	Recycled Polyethylene Sheet		10.780		
Devcon Flexane	Cast Polyurethane		11.630		