

3. 1 Mortars

Products		Index	Al ₂ O ₃ %	Fe ₂ O ₃ Max. %	Refractoriness Under Load (0.2MPa) °C	Refractoriness Min. °C	Bonding Strength MPa	Cold Crushing Strength Min. MPa	Working Temperature Max. °C	Bonding Strength MPa	Reheating Linear Change %	Bonding Time
Phosphate Refractory Mortars			65 (Min.)	2		1770		(110°C x 3h) 8	1650			
Refractory Mortars	Fire Clay Mortars	NN-38	38 (Min.)			1690	110°C Dried 1.0			(1200°C x 3h) 3.0	(1200°C x 3h) 5—3	
		NN-42	42 (Min.)			1710	110°C Dried 1.0			(1200°C x 3h) 3.0	(1300°C x 3h) 1—5	
		NN-45	45 (Min.)			1730	110°C Dried 1.0			(1200°C x 3h) 3.0	(1400°C x 3h) 1—5	1—3
	High Aluminium Mortars	LN-55	55 (Min.)			1770	110°C Dried 1.0			(1400°C x 3h) 3.0		1—3
	Silica Mortars		94 (SiO ₂) Min. 1.0 (Fe ₂ O ₃) Max.		1600	1690	110°C Dried 1.0			(1400°C x 3h) 3.0		1—2
	Magnesium Mortars		82 (MgO) Min. 5 (SiO ₂) Max.									



3. 2 Castables

Products		Index	Al ₂ O ₃ (Min.) %	CaO (Max.) %	Refractoriness (Min.) °C	Bulk Density (Min.) g/cm ³	Cold Crushing Strength (Min.) MPa		Modulus Of Rupture (Min.) MPa		Reheating Linear Change (Max.) %	Working Temperature (Max.) °C	Thermal conductivity 350 °C w/m.k
							110°C	1500°C	110°C	1500°C	1300°C x 3h		
Clay Low Cement Castables		42	2	1710	2.2	20					± 0.5	1350	
High Aluminium Low Cement Castables		70	2	1750	2.4	25			4		± 0.5	1500	
High Aluminium Super Low Cement Castables	Common	70	1.0	1770	2.80	45	50	7	6		± 0.5	1600	
	Super	70	1.0	1770	2.80	50	80	8	10		± 0.5	1600	
Cement Castables													
Clay		45		1650		1.5			3.5		± 1.5	1350	
High Aluminium		65		1690		2.0			4		± 1	1400	
Insulation Castables	B. D 1.3					6.5			2.0		± 0.5		0.34-0.40
	B. D 1.0					2.5			1.0		± 0.5		0.23-0.29
Steel Fibre						4.0			8		± 0.5	1400	