

## Fred's Guide to Fine Refractories

Refractory uses and cross reference

June 1, 2004

Application	Brick	Castable	Fiber	Plastics	Board	Mortar
<b>Glass furnace - Tank</b>						
Under AZS	30,31,33					50,52
Backup bricks next to AZS	34,38					53
AZS	60,61,62					
Outer tank insulation	41,44					63,64
Superstructure walls	34,37					53
Superstructure insulation	41,42		2,3,5		11,14,16	
Crown (arch bricks)	35					53
Arch skews	34,37					53
Crown insulation			1,4,6			
Crown outer insulation		26	2,3,5			
Flue	30,34,42,44					50,52,53
<b>Glass furnace - Free Standing</b>						
Brick Floor	30,34,37					50,52,53
Cast floor pans		20,21,24,27				
Walls	35					53
Crowns	35	20,27		70,71		53
Crown insulation			1,4,6			
Crown outer insulation		26	2,3,5			
<b>Glass furnace - Invested pot</b>						
Investment next to pot		20, 24,27				
Investment insulation	41,44					50,51,52
<b>Annealers</b>						
Hot surface walls	40					50,51,52
Wall insulation			2, 3, 5		10,16	
Floor	40					50,51,52
Subfloor insulation					10	
Ceiling					12,14,15	
Ceiling insulation			2, 3, 5			
Door hot surface					12,14,15	
Door insulation			2, 3, 5			
<b>Glory holes</b>						
Interior bricks	42,44					50,52
Insulation layer			2,3,5			
Fire ring		20,21,24,27		70,71		
Doors		23,25				
Floor pan		24,27				

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Product key

Category / Product name	Comment	Manufacturer	MFG's Website
<b>Fiber</b>			
Cerachem (1)	2,600° blanket	Thermal Ceramics	thermalceramics.com
Cerablanket (2)	2,300° blanket	Thermal Ceramics	thermalceramics.com
Inswool HP (3)	2,300° blanket	ANH	hwr.com
Inswool HTZ (4)	2,600° blanket	ANH	hwr.com
Durablanket HP-S (5)	2,300° blanket	Unifrax	unifrax.com
Durablanket 2600 (6)	2,600° blanket	Unifrax	unifrax.com
<b>Board</b>			
Insblock 19 (10)	Low temp backup	ANH	hwr.com
Kaowool M (11)	Low density	Thermal Ceramics	thermalceramics.com
Kaowool HS (12)	High density - Clay based	Thermal Ceramics	thermalceramics.com
Ceraboard (13)	High density	Thermal Ceramics	thermalceramics.com
Insboard 2300 HD (14)	High density	ANH	hwr.com
Duraboard HD (15)	High density	Unifrax	unifrax.com
Duraboard LD (16)	Low density	Unifrax	unifrax.com
<b>Castable</b>			
Intracast MZ (20)	Low cement	Pryor Giggey	pryorgiggey.com
Phlocast 30 (21)	Low cement	Pryor Giggey	pryorgiggey.com
Phlocast 30 LW (23)	Low cement insulating	Pryor Giggey	pryorgiggey.com
Missou (24)	Conventional	ANH	hwr.com
Kastolite 30 (25)	Insulating hi temp	ANH	hwr.com
Greencast 19L (26)	Insulating low temp	ANH	hwr.com
Narcotuff Super 70(27)	Low cement	ANH	hwr.com
<b>Brick</b>			
Kruzite 70 (30)	High alumina	ANH	hwr.com
Clipper (31)	Super duty fire brick	ANH	hwr.com
Clayborn super D (32)	Super duty fire brick	ANH	hwr.com
Kx-99 (33)	Super duty fire brick	ANH	hwr.com
Tamax (34)	Mullite high purity	ANH	hwr.com
Tamul (35)	Mullite	ANH	hwr.com
Ufala (36)	High alumina	ANH	hwr.com
Resistal S65W (37)	Mullite	ANH	hwr.com
Zirmul (38)	Mullite zirconia	ANH	hwr.com
K-23 (40)	IFB low temp -chalky	Thermal Ceramics	thermalceramics.com

K-26 (41)	IFB medium temp	Thermal Ceramics	thermalceramics.com
JM-28 (42)	IFB High temp	Thermal Ceramics	thermalceramics.com
G-23 LI (43)	IFB low temp - crumbly	ANH	hwr.com
G-28 LI (44)	IFB High temp	ANH	hwr.com
<b>Mortar</b>			
No T-36 (50)	mullite	ANH	hwr.com
Sairset (51)	high sodium	ANH	hwr.com
Econoset 60 (52)	mullite	Pryor Giggey	pryorgiggey.com
Tasil 302 (53)	Specifically for tamax and tamul	ANH	hwr.com
<b>AZS</b>			
Monofrax CS3 (60)	Tile	Vesuvius	monofrax.com
Monofrax CS4 (61)	Tile - heavier duty than CS3	Vesuvius	monofrax.com
Unicor 501 trucast (62)	Tile and "tub"	Corhart	www.sefpro.saint-gobain.com
HMS Cement for leveling (63)	NOT MORTAR	Vesuvius	monofrax.com
Unipave B (64)	NOT MORTAR	Corhart	www.sefpro.saint-gobain.com
<b>Plastic</b>			
Kao-Plas(70)	Not phos bonded	Thermal Ceramics	thermalceramics.com
Narphos 85P(71)	Phos bonded	ANH	hwr.com

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