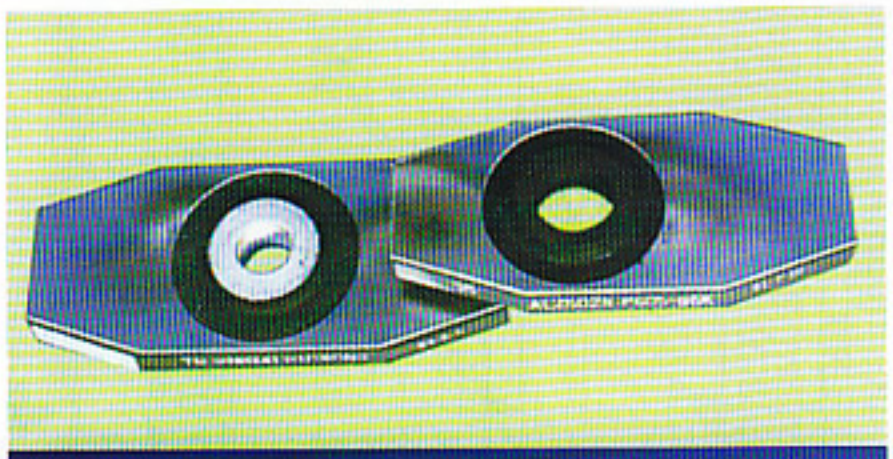
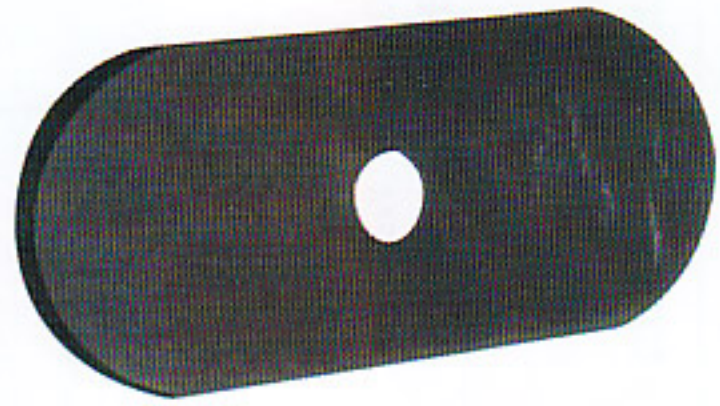
SPECIFICATIONS FOR SLIDE GATE REFRACTORIES

- **Ladle Slide Gate System : Flocon, Krosaki-Harima and other international systems.**
- **Tundish Slide Gate System : Flocon and other international systems.**
- **Furnace Gate System : Flocon Model 2215.**





Quality Selection Matrix

QUALITY	MILD STEEL	CALCIUM ADDED STEEL	HIGH Mn STEEL	HIGH Si STEEL	HIGH O_2 STEEL	HIGH O_2 & Mn STEEL	STAINLESS STEEL
		ABOVE 30 PPM	ABOVE 0.8%		ABOVE 70 PPM	FREE CUTTING GRADE	
Al_2O_3-ZrO_2-C	√	×	×	√	×	×	√
Al_2O_3-C	√	×	∞	√	∞	∞	√
Al_2O_3-MgO-C	√	×	∞	√	∞	∞	×
Al-Spinel- C	√	×	∞	∞	∞	∞	×
Spinel-C	√	×	√	∞	√	√	×
MgO-Spinel-C	√	∞	√	∞	√	√	×
MgO-Al_2O_3-C	√	∞	√	∞	√	√	×
MgO-C	√	√	√	×	√	√	×
ZrO_2	√	√	×	√	×	×	×

√ = Most Suitable ∞ = Suitable × = Not Suitable

Technical Data For Slide Gate Refractories

	AC 34	AC 30	AC 40	AZC 809	AZC 830	AZC 840
CHEMICAL ANALYSIS (wt %)	Typical Value	Typical value	Typical Value	Typical value	Typical value	Typical value
Alumina (Al_2O_3)	92.00	86.00	87.00	81.00	75.00	75.00
Silicia (SiO_2)	1.00	5.00	5.00			
Zirconia (ZrO_2)				8.00	8.00	8.00
Magnesia (MgO)						
Residual Carbon	6.00	5.00	4.00	5.00	5.00	4.00
PHYSICAL PROPERTIES						
Bulk Density (g/cc)	3.02	3.05	3.04	3.05	3.05	3.05
Porosity (%)	3.50	4.00	10.00	4.00	5.00	12.00
Cold Crushing Strength (Kg/cm^2)	1940	1575	1450	1820	1600	1420

	MC 15	MC 30	MSC 01	MSC 02	SPC 01	SPC 30
CHEMICAL ANALYSIS (wt %)	Typical value	Typical Value	Typical Value	Typical value	Typical value	Typical Value
Alumina (Al_2O_3)	18.00	9.00	12.00	7.00	80.00	80.00
Silicia (SiO_2)						
Zirconia (ZrO_2)						
Magnesia (MgO)	76.00	80.00	80	85	16.50	16.00
Residual Carbon	5.00	5.00	5.20	6.00	3.50	3.00
PHYSICAL PROPERTIES						
Bulk Density (g/cc)	2.94	2.95	2.95	2.90	3.00	2.95
Porosity (%)	5.00	3.00	3.50	3.00	5.00	5.00
Cold Crushing Strength (Kg/cm^2)	1750	1760	1800	1850	1850	1550