



Plastic Refractory Grade Comparison

Seven published grades for an initial technical shortlist - manufactured in Wankaner, Gujarat, India

USE THIS AS A SHORTLIST	NOT A STAND-ALONE SELECTION CHART
Compare the published range, then open the exact grade datasheet and send the full operating requirement.	Temperature and alumina alone do not establish suitability. Atmosphere, wear, existing lining, geometry, installation, storage, and restart conditions matter.

Grade	Published service temp.	Al2O3	Published bulk density	Packing	Shelf life
ROYAL PLAST - 90	1700 C	87-89%	2.70 g/cc	25 kg bag	12 months
ROYAL PLAST - 80	1600 C	78-80%	2.60 g/cc	25 kg bag	12 months
ROYAL PLAST - 70	1500 C	68-70%	2.50 g/cc	25 kg bag	12 months
ROYAL PLAST - 60	1400 C	57-59%	2.20 g/cc	25 kg bag	12 months
ROYAL PLAST - 45	1400 C	43-45%	2.15 g/cc	25 kg bag	6 months
ROYAL PLAST F-45 AB	1500 C	42.40% typical 40-45 Wt% spec.	2.32 g/cm3 after 110 C	50 kg bag	Confirm
SUPER ALX-AB	1600 C	72.80% typical 72-76 Wt% spec.	2.59 g/cm3 after 110 C	50 kg bag	Confirm

How to proceed

1. Identify the equipment and exact zone.
2. Record normal and peak temperature.
3. Add atmosphere, wear, existing lining, repair size, method, quantity, and schedule.
4. Confirm the current datasheet and written offer.

Published-data notes

Values are transcribed from Royal Refractories' published product information. For F-45 AB and SUPER ALX-AB, alumina includes a typical value and a published specification range; density is reported after 110 C. Shelf life is not published for those two grades in the source used here and must be confirmed.

Website references

royalrefractories.com/products/category/plastic-refractory
royalrefractories.com/markets/plastic-refractory
royalrefractories.com/contact