

## TECHNICAL DATA SHEET

### 1 tonne **GRLC80** - Low Cement Castables Description and Advantages

#### Description

Darco Code **GRLC80** Low cement castable is based on the use of low calcium aluminate cement content, and they are used in many applications that require high refractoriness, corrosion resistance and abrasion resistance. They possess a uniform structure with low porosity; have high temperature strength throughout the low and intermediate temperature range.

The content of CaO of low cement castable is usually less than 3%, so it insures the castable have a good strength in mid-temperature.

#### Application

- Cement Industrial
- Rotary Kiln
- Steel Industrial
- Furnace
- CFB Boiler
- Foundry Industrial

#### Features

- Low Content of CaO
- Excellent Mid-Temp Crushing Strength
- Excellent High Temp Resistance
- Excellent Wear Resistance

#### Technical data

Item	GRLC 75	<b>GRLC 80</b>	GRLC 85	GRLC 95
Service Temp°C	1650	1700	1750	1780
Bulk Density (g/cm <sup>3</sup> ) (Dried at 110°C)	2.55	2.6	2.7	3.0
CCS 110°C	65	70	80	90
(Mpa) 1100°C	75	80	90	95
1500°C	80	85	100	110
MOR 110°C	9	10	11	13
(Mpa) 1100°C	10	11	12	14
1500°C	11	12	13	15
Max Grain Size (mm)	6	6	6	6
Chemical Analysis(%)				
Al <sub>2</sub> O <sub>3</sub>	75	80	85	95
CaO	2-3	2-3	2-3	2-3
Fe <sub>2</sub> O <sub>3</sub>	2.4	2.0	1.8	1.5
Application Guidelines				
Mixer	P	P	P	P
Placement	V	V	V	V
Water/Mixer Temp °C	20±5	20±5	20±5	20±5
Mixing Time(Min): Dry/Wet	2/5	2/5	2/5	2/5
Water % (Typical)	7-9	7-9	6-8	6-7