

## FIRE CLAY & HIGH ALUMINA BRICKS

PRODUCT NAME	CHEMILCAL ANALYSIS(%)		APPARENT POROSITY (%)	BULK DENSITY (g/cc)	CCS (kg/cm <sup>2</sup> )	PLC (%)	PCE (°C/OC)	RUL (T <sub>A</sub> °C)
	AL <sub>2</sub> O <sub>3</sub>	FE <sub>2</sub> O <sub>3</sub>						
<b>Varsha-IS6</b>	<b>28-31</b>	<b>2.2-2.5</b>	<b>20-25</b>	<b>2.00</b>	<b>200-400</b>	<b>±0.5 at 1300°C/2h</b>	<b>-</b>	<b>1330-1360</b>
<b>Varsha-IS8</b>	<b>38-40</b>	<b>1.8-2.0</b>	<b>17-22</b>	<b>2.05</b>	<b>300-450</b>	<b>-0.8 to 0.3 at 1400°C/2h</b>	<b>1659/29</b>	<b>1350-1400</b>
<b>Varsha-40S</b>	<b>38-41</b>	<b>1.8-2.5</b>	<b>16-21</b>	<b>2.20</b>	<b>400-600</b>	<b>-1.0 to 0.3 at 1450°C/2h</b>	<b>1665/30</b>	<b>1370-1420</b>
<b>Varsha-42D</b>	<b>41-43</b>	<b>1.3-1.7</b>	<b>15-18</b>	<b>2.25</b>	<b>450-650</b>	<b>-0.6 to 0.2 at 1450°C/2h</b>	<b>1717/32</b>	<b>1450-1480</b>
<b>Varsha-45</b>	<b>42-45</b>	<b>2.5-3.5</b>	<b>17-22</b>	<b>2.23</b>	<b>400-600</b>	<b>-0.8 to 0.3 at 1400°C/2h</b>	<b>1665/30</b>	<b>1360-1410</b>
<b>Varsha-45S</b>	<b>42-46</b>	<b>1.8-2.3</b>	<b>16-21</b>	<b>2.25</b>	<b>400-600</b>	<b>-0.8 to 0.3 at 1450°C/2h</b>	<b>1683/31</b>	<b>1390-1440</b>
<b>Varsha-45D</b>	<b>44-48</b>	<b>1.2-1.5</b>	<b>14-18</b>	<b>2.35</b>	<b>450-700</b>	<b>-0.5 to 0.2 at 1450°C/2h</b>	<b>1743/33</b>	<b>1460-1500</b>
<b>Varsha-50</b>	<b>47-50</b>	<b>2.6-3.5</b>	<b>17-21</b>	<b>2.32</b>	<b>450-650</b>	<b>-0.8 to 0.4 at 1450°C/2h</b>	<b>1717/32</b>	<b>1400-1450</b>
<b>Varsha-50S</b>	<b>47-50</b>	<b>1.8-2.2</b>	<b>16-21</b>	<b>2.30</b>	<b>450-650</b>	<b>-1.0 to 0.3 at 1450°C/2h</b>	<b>1717/32</b>	<b>1400-1450</b>
<b>Varsha-55</b>	<b>52-55</b>	<b>2.9-3.9</b>	<b>17-22</b>	<b>2.42</b>	<b>450-650</b>	<b>-0.5 to 1.0 at 1450°C/2h</b>	<b>1743/33</b>	<b>1400-1440</b>
<b>Varsha-55S</b>	<b>52-56</b>	<b>1.7-2.2</b>	<b>16-21</b>	<b>2.35</b>	<b>500-700</b>	<b>-0.8 to 0.3 at 1500°C/2h</b>	<b>1763/34</b>	<b>1450-1500</b>
<b>Varsha-GTF</b>	<b>56-59</b>	<b>1.0-1.5</b>	<b>17-21</b>	<b>2.35</b>	<b>400-600</b>	<b>±0.7 at 1500°C/2h</b>	<b>1804/36</b>	<b>1500-1540</b>
<b>Varsha-60</b>	<b>57-60</b>	<b>3.4-4.2</b>	<b>17-22</b>	<b>2.50</b>	<b>550-800</b>	<b>-0.4 to 2.0 at 1450°C/2h</b>	<b>1785/35</b>	<b>1420-1450</b>
<b>Varsha-60L</b>	<b>57-61</b>	<b>2.8-3.8</b>	<b>17-22</b>	<b>2.45</b>	<b>500-800</b>	<b>-0.2 to 2.2 at 1500°C/2h</b>	<b>1785/35</b>	<b>1430-1470</b>

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	AL <sub>2</sub> O <sub>3</sub>	FE <sub>2</sub> O <sub>3</sub>						
<b>Varsha-60S</b>	<b>58-61</b>	<b>1.7-2.2</b>	<b>16-21</b>	<b>2.45</b>	<b>500-800</b>	<b>-0.4 to 0.8 at 1500°C/2h</b>	<b>1804/36</b>	<b>1470-1510</b>
<b>Varsha-60M</b>	<b>59-61</b>	<b>0.9-1.1</b>	<b>14-18</b>	<b>2.45</b>	<b>600-800</b>	<b>±0.5 at 1600°C/2h</b>	<b>1820/37</b>	<b>1630-1670</b>
<b>Varsha-62DB</b>	<b>61-63</b>	<b>1.2-1.7</b>	<b>14-18</b>	<b>2.45</b>	<b>500-800</b>	<b>±0.8 at 1500°C/2h</b>	<b>1785/35</b>	<b>1500-1530</b>
<b>Varsha-62D</b>	<b>61-64</b>	<b>1.2-1.5</b>	<b>13-16</b>	<b>2.50</b>	<b>600-900</b>	<b>±0.5 at 1500°C/2h</b>	<b>1804/36</b>	<b>1500-1550</b>
<b>Varsha-62BRN</b>	<b>62-64</b>	<b>0.9-1.2</b>	<b>12-15</b>	<b>2.50</b>	<b>650-900</b>	<b>±0.2 at 1500°C/2h</b>	<b>1820/37</b>	<b>1500-1550 at 4kg/cm<sup>2</sup></b>
<b>Varsha-70N</b>	<b>64-67</b>	<b>3.5-4.4</b>	<b>17-23</b>	<b>2.55</b>	<b>500-800</b>	<b>0.5 to 2.5 at 1450°C/2h</b>	<b>1804/36</b>	<b>1440-1470</b>
<b>Varsha-70</b>	<b>67-70</b>	<b>3.4-4.0</b>	<b>17-22</b>	<b>2.60</b>	<b>600-900</b>	<b>0.3 to 2.5 at 1450°C/2h</b>	<b>1804/36</b>	<b>1460-1480</b>
<b>Varsha-70S</b>	<b>67-70</b>	<b>2.8-3.2</b>	<b>17-22</b>	<b>2.60</b>	<b>600-900</b>	<b>0.5 to 3.0 at 1500°C/2h</b>	<b>1804/36</b>	<b>1460-1480</b>
<b>Varsha-70L</b>	<b>67-70</b>	<b>2.4-2.8</b>	<b>16-21</b>	<b>2.55</b>	<b>600-800</b>	<b>0.5 to 2.5 at 1500°C/2h</b>	<b>1804/36</b>	<b>1460-1490</b>
<b>Varsha-70/20</b>	<b>68-71</b>	<b>1.8-2.2</b>	<b>16-21</b>	<b>2.55</b>	<b>600-900</b>	<b>0.2 to 2.0 at 1500°C/2h</b>	<b>1804/36</b>	<b>1470-1500</b>
<b>Varsha-70LI</b>	<b>68-72</b>	<b>1.4-1.8</b>	<b>16-21</b>	<b>2.55</b>	<b>600-900</b>	<b>-0.2 to 2.0 at 1500°C/2h</b>	<b>1820/37</b>	<b>1500-1530</b>
<b>Varsha-70M</b>	<b>69-72</b>	<b>0.4-0.8</b>	<b>15-18</b>	<b>2.55</b>	<b>600-900</b>	<b>-0.2 to 0.5 at 1500°C/2h</b>	<b>1820/37</b>	<b>1650-1700</b>
<b>Varsha-75</b>	<b>71-75</b>	<b>2.8-3.5</b>	<b>17-22</b>	<b>2.65</b>	<b>600-900</b>	<b>0.3 to 3.0 at 1500°C/2h</b>	<b>1804/36</b>	<b>1470-1490</b>
<b>Varsha-80S</b>	<b>74-77</b>	<b>2.8-3.5</b>	<b>17-22</b>	<b>2.72</b>	<b>700-950</b>	<b>-0.5 to 2.5 at 1550°C/2h</b>	<b>1820/37</b>	<b>1470-1500</b>
<b>Varsha-80L</b>	<b>77-80</b>	<b>2.2-2.7</b>	<b>17-22</b>	<b>2.72</b>	<b>700-900</b>	<b>-0.5 to 2.5 at 1550°C/2h</b>	<b>1820/37</b>	<b>1490-1520</b>
<b>Varsha-80</b>	<b>78-81</b>	<b>1.5-2.0</b>	<b>15-19</b>	<b>2.75</b>	<b>750-1000</b>	<b>0.5 to 1.2 at 1550°C/2h</b>	<b>1820/37</b>	<b>1520-1550</b>
<b>Varsha-80P</b>	<b>78-81</b>	<b>1.5-2.0</b>	<b>14-18</b>	<b>2.80</b>	<b>800-1100</b>	<b>0.5 to 1.2 at 1550°C/2h</b>	<b>1820/37</b>	<b>1520-1550</b>

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	AL <sub>2</sub> O <sub>3</sub>	FE <sub>2</sub> O <sub>3</sub>						
<b>Varsha-85</b>	<b>82-85</b>	<b>1.4-1.8</b>	<b>15-19</b>	<b>2.80</b>	<b>750-1000</b>	<b>-0.3 to 1.0 at 1550°C/2h</b>	<b>1850/38</b>	<b>1540-1580</b>
<b>Varsha-85P</b>	<b>82-85</b>	<b>1.4-1.8</b>	<b>13-17</b>	<b>2.85</b>	<b>850-1200</b>	<b>-0.3 to 1.0 at 1550°C/2h</b>	<b>1850/38</b>	<b>1540-1580</b>
<b>Varsha-88RB</b>	<b>86-89</b>	<b>1.0-1.8</b>	<b>12-16</b>	<b>2.90</b>	<b>900-1200</b>	<b>-0.2 to 0.5 at 1500°C/2h</b>	<b>1820/37</b>	<b>1580-1620</b>
<b>Varsha-90</b>	<b>88-92</b>	<b>0.4-0.8</b>	<b>12-16</b>	<b>3.05</b>	<b>1000-1300</b>	<b>±0.5 at 1550°C/2h</b>	<b>1850/38</b>	<b>1620-1660</b>
<b>Varsha-SiC85</b>	<b>SiC=8 0-85</b>	<b>0.5-1.0</b>	<b>14-17</b>	<b>2.50</b>	<b>600-800</b>	<b>-0.2 to 0.5 at 1400°C/2h</b>	<b>-</b>	<b>1620-1680</b>
<b>Varsha-SiC88</b>	<b>SiC=8 4-88</b>	<b>0.5-0.8</b>	<b>14-17</b>	<b>2.50</b>	<b>600-900</b>	<b>-0.2 to 0.5 at 1400°C/2h</b>	<b>-</b>	<b>1650-1700</b>

NOTE:

1. Size tolerance: ±1.5% or ±2.0% whichever is greater.
2. VRPL does not warrant the accuracy, fitness for purpose or updates of any information disclosed herein. Specification of the products may change based on the geographical area to be supplied.
3. Max. & Min. Values are given separately for testing purposes.
4. Data shown are based on average results of production samples and are subject to normal variation during individual tests.
5. The information contained herein are exclusive property of VRPL