

# CRAFTA-S

## TECHNICAL DATA SHEET

### 1 GENERAL INFORMATION

**Crafta-S Cement** is preferred in more than 70 countries in the world with its stability and high strength.

The advantages offered by **Çimsa Crafta-S Cement** to the Applications;

- Optimum air content.
- Optimum water retention rate.
- High whiteness.
- Optimized setting time.

### 2 APPLICATION AREA

Çimsa **Crafta-S Cement** application areas are;

- Construction chemical productions.
- Precast productions.
- Terrazzo tile productions.
- Pumice productions.
- Autoclaved aerated concrete productions.

### 3 PRODUCTION

Stability is the focal point of the Çimsa production plants and the variability in the product parameters is minimized by the controls at each stage during the process from raw material to delivery. Production processes are certified according to EN ISO 9001 and EN ISO 18001 standards.

### 4 PHASE COMPOSITION

**Main mineral Phases** :  $C_3S$ ,  $C_2S$

**Auxiliary Mineral Phases:**  $C_3A$

### 5 WHITENESS

Whiteness of the **Crafta-S Cement** is done according to L, a, b, and Y values with regard to Hunter Lab systematic.

<b>L (Brighness)</b>	93.8
<b>a (Greenness)</b>	-1.00
<b>b (Yellowness)</b>	2.80
<b>Y (Whiteness)</b>	88.0

### 6 CHEMICAL FEATURES

Features	Çimsa Values	Standart Limits (ASTM C 91)	
		Min.	Max.
Insoluble Residue	0.18 %	-	5.0
$SiO_2$	21.6 %	-	-
$Al_2O_3$	4.05 %	-	-
$Fe_2O_3$	0.28 %	-	-
CaO	65.7 %	-	-
MgO	1.30 %	-	-
$SO_3$	3.50 %	-	4.0
Ignition Loss	3.50 %	-	5.0
$Na_2O$	0.30 %	-	-
$K_2O$	0.35 %	-	-
Chlorine (Cl)	0.01 %	-	0.1
Free CaO	2.20 %	-	-

### 7 PHYSICAL AND MECHANICAL FEATURES

Features	Çimsa Values
Specific Gravity	2.9 %
Blaine	m <sup>2</sup> /kg 590
Whiteness Y	88.0 %
Vicat Initial Set	Minute 120
Vicat Final Set	Minute 160
Water Volume	28.0 %
Flow (ASTM C-190)	100 %
Residue at 45 (microns)	2.3 %
Residue at 90 (microns)	0.1 %
Compressive Strength (7 days)	PSI 2300
Compressive Strength (28 days)	PSI 3000

### 8 QUALITY CONTROL

**Crafta-S Cement** is subject to quality control conforming to ASTM C 91 standards. It is presented to foreign markets with CE certificate.

### 9 SAFETY INSTRUCTIONS

Standard safety requirements for general cements are followed. Please refer to the **Crafta-S Cement** Safety Data Sheet for more information.

### 10 STORAGE CONDITIONS AND SHELF LIFE

**Crafta-S Cement** must be stored in dry and sheltered conditions. In this case, it will retain its properties for at least 6 months. No more than 10 bags or 2 pallets should be stacked in a row. The product must be stored in its original package. In cases where it is not used, the mouth of the package must be tightly closed.