Research Institute of Building Materials, JSC.
(Výzkumný ústav stavebních hmot, a. s.)
Hněvkovského 65, 617 00 Brno, CZECH REPUBLIC
phone: +420 543 529 200, fax: +420 543 216 029
e-mail: vustah@vustah.cz, http://www.vustah.cz

PRODUCTION OF LIME

► Lime for special purposes

Manufactory: Research Institute of Building Materials, JSC., Czech Republic

Utilization: for preparation of special porous hydrosilicates based on xonotlite and tobermorite, which are used as absorption liquid carrier in acetylene cylinders for autogenous welding.

Characteristics: highly pure and very reactive gravel lime, produced in the semiindustrial rotary kiln of the Research Institute of Building Materials. The lime is characterized by very low underfiring and unsleakable fraction content and low properties variability among individual supplies.

It is delivered in bulk in road transport tanks, in plastic cans (approx. 50 kg), eventually after agreement in bags, containers etc. according to customer`s requirements.

Typical physical and chemical properties:

Grain size analysis	0 – 16 mm
Apparent density	800 – 900 kg/m^3
Content of free (active) CaO	min. 95%
Lime activity (reaction speed)	min. 75 ℃ up to 1 minute
Sedimentation volume of lime slurry	min. 30%

Head of section Development and innovation:
Ing. Jiří Junek
phone: +420 543 529 289
e-mail: junek@vustah.cz

Research Institute of Building Materials, JSC.
(Výzkumný ústav stavebních hmot, a. s.)
Hněvkovského 65, 617 00 Brno, CZECH REPUBLIC
phone: +420 543 529 200, fax: +420 543 216 029
e-mail: vustah@vustah.cz, http://www.vustah.cz

► Hydraulic lime

Manufactory: Research Institute of Building Materials, JSC., Czech Republic

Utilization: preparation of mortars for masonry and plasters, repairs of sights etc.

Characteristics: blended hydraulic lime, prepared by mixing of components with latent and apparent hydraulic properties with suitable fillers and other components. Adjustment of properties and composition is possible according to customer`s requirements.

Properties:
Blended hydraulic lime meets the requirements of the standard ČSN EN 459-1 „Building lime - Part 1: Definitions, specifications and conformity criteria“ for hydraulic lime HL3,5.

Content of free lime	over 6%
Compressive strength at 7 days	over 1,5 MPa
Compressive strength at 28 days	3,5 – 10 MPa
Volume stability	better than 20 mm

► Viennese lime

Viennese lime is used for the production of grinding paste usable mainly in the engineering industry. It is produced by hard burning of crushed and very pure dolomite in a rotary kiln in the Research Institute of Building Materials.

Head of section Development and innovation:
Ing. Jiří Junek
phone: +420 543 529 289
e-mail: junek@vustah.cz