

THE SYXTE BOKE

the mettall well, and that they neyther cleave, bzeake, chappe, or ware into a cruſſe. They muſt alſo be tempered with a water called Magiſtra, (of the whiche we will ſpeake afterwarde) to the intente that beyng dzye, they may be harder, and holde faſter together. Whyzely, that they may continue, and ſerue at diuers foundinges and meltyngeſ, to the intente that whan you wyl caſte many metalles, or other thynges all of one lozte, ye neede not at enery tyme make newe mouldes. Alſo you muſt vnderſtande, that for metalles that are lofte, as Lead, and Tynne, all earth, ſo it be good, will ſuffiſe: Provided alwayes, that it be fyne and ſmalle, and well tempered with the ſayd Magiſtra, as I wyl declared hereafter.

◆ The fyrſte earth to caſte in a moule all maner of fuſible mater.

Take Emeryll, that men but nyſhe ſwozdes or armour with, and bzape it very ſmall, in ſlamyng it, as we wyl ſhewe you afterwarde, and temper it, or reduce it into dow or paſt, with the ſaid Magiſtra, as I will tell you hereafter, and ſo bzelyng it, you ſhall make a very good earth, whych will continue for many foundyngeſ and meltyngeſ, ſo that it be well governed and tempered, & the moze it is occupied, the better it wyl ware: Provided, that it be alwayes bzaped a new, & than watered and tempered with the Magiſtra.

The ſecond earth or ſande.

Take pieces of thoſe Meſſelleſ, or pottes of earthe that are made in Valentia in Italye, or other that glaſſe makers uſe to kepe their molten glaſſe in the furnelle, and yf you may onely get the bottome, or the pieceſe frome the myddle to the lower moſte parte of them, it ſhall be the better, in takyng awaye the glaſſe that is rounde aboute them, yf not, take them as you maye. Than take Goldſmythes croſſetteſ, or meltynge pottes, newe, and bzeake them in pieceſe, and that the weyght

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weight of the ſayd croſſetteſ be as much as the pieceſe of the ſayd veſſelleſ befoze. All theſe thynges beyng fyrſte beaten and ſtamped in a mozter, let them be wel bzaped after vpon a Phosphire ſtone, with water, as men bzape colourſ, and hauynge made them very ſine and ſmall, by ſeethyng them agayne on the fire, as we wil after declare, kepe them in lirtle goates leather bagges, or in ſome cloſe boxes, to the ende that becauſe of theyr ſynell they ſpe noi, and vaniſhe awaye in the ayze.

The thirde earth, or ſande.

Take the ſplyng of yzon, ſande, or yzon ooze, or the ſparkeſ that flye from hoate yzon whan it is beaten, or els al together: but that it be pure without anye earth or ſplith: than put it in an yzon panne, or in ſome other veſſell that wyl endure the fyze, ſpzynglyng it with ſtronge Almagre, and keepynge it on the fyze the ſpace of eghte houres, after thys temper it agayne in Almagre, and the incenſe, and heate it in the fyze, bzapynge and renewynge it diuers tymes, as the other. And kepe it in leather bagges, or in boxes well ſtopped.

The fourth earth or ſand.

Take pieceſe of a pommeiſe ſtone made hote in the fyze, and quenched in Almagre foure tymes. Than take .ii. partes of the ſparkeſ of yzon bzaped and ſtamped, and one parte of the pommeiſe ſtone, mingle all together, and put it in the fire, and bzape it often tymes, and ſo kepe it as the other.

The fyft earth, and the moſte parfyt.

Take mutton boneſ, but yf you take thoſe of the heade, they wil be better, if not, take of what part ſo euer it be, and burne them vpon the coales or in ſome furneis, vntill they ware very white: than ſtampe them, and ſiſte them. This doen, you ſhall put the pou-